

=> b reg  
 FILE 'REGISTRY' ENTERED AT 16:03:21 ON 26 DEC 2007  
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STRUCTURE FILE UPDATES: 25 DEC 2007 HIGHEST RN 959463-53-7  
 DICTIONARY FILE UPDATES: 25 DEC 2007 HIGHEST RN 959463-53-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

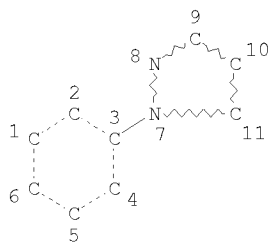
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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REGISTRY includes numerically searchable data for experimental and  
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<http://www.cas.org/support/stngen/stndoc/properties.html>

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NODE ATTRIBUTES:  
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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
 L6 134263 SEA FILE=REGISTRY SSS FUL L4  
 L8 49433 SEA FILE=REGISTRY ABB=ON PLU=ON L6 AND 16.165.12/RID

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 FILE 'HCAPLUS' ENTERED AT 16:04:05 ON 26 DEC 2007  
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FILE COVERS 1907 - 26 Dec 2007 VOL 147 ISS 26  
FILE LAST UPDATED: 25 Dec 2007 (20071225/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L18 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)  
 AN 2004:841772 HCAPLUS  
 DN 141:350163  
 TI Preparation of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptor antagonists  
 IN Schiemann, Kai; Ackermann, Karl-August; Arlt, Michael; Finsinger, Dirk; Schadt, Oliver; Van Amsterdam, Christoph; Bartoszyk, Gerd; Seyfried, Christoph  
 PA Merck Patent GmbH, Germany  
 SO Ger. Offen., 102 pp.  
 CODEN: GWXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

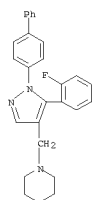
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AU2004228120	A1	20041021	2004AU-0228120	20040308
CA--2521201	A1	20041021	2004CA-2521201	20040308
WO2004089931	A1	20041021	2004WO-EP02353	20040308
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US2006264419	A1	20061123	2005US-0552065	20051005
PRAI 2003DE-1015572	A	20030405		
2004WO-EP02353	W	20040308		
OS MARPAT 141:350163				
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Preparation of title compds. I [X = CH, N; R<sub>1</sub> = H, halo, (CH<sub>2</sub>)<sub>n</sub>Het, etc.]; R<sub>2</sub> = (CH<sub>2</sub>)<sub>n</sub>Het, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, etc.; R<sub>3</sub>, R<sub>4</sub> = H, (CH<sub>2</sub>)<sub>n</sub>Het, CHO, etc.; n = 0-5; Ar = (un)substituted Ph; Het = (un)substituted monocarb., bicyclic-heterocycle] and their pharmaceutically acceptable salts were prepared. For example, sodium trisacetoxyborohydride mediated reductive amination of 1-methyl-piperazine and aldehyde II, e.g., prepared from 2-fluoro-4,γ-dioxo-benzenebutanonic Et ester in 4-steps, afforded the dihydrochloride salt of arylpyrazole III. In 5-HT<sub>2A</sub> receptor binding assays, 167-examples of compds. I exhibited IC<sub>50</sub> values ranging from 0.015-4.7x10<sup>-7</sup>M. Compds. I are claimed suitable as ligands of 5-HT receptors.

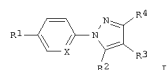
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L18 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)  
 AN 2004:841772 HCAPLUS  
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 TI Preparation of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptor antagonists  
 IN Schiemann, Kai; Ackermann, Karl-August; Arlt, Michael; Finsinger, Dirk; Schiad, Oliver; Van Amsterdam, Christoph; Bartoszyk, Gerd; Seyfried, Christoph  
 PA Merck Patent GmbH, Germany  
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 FAN.CNT 1



L18 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)  
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 PA Merck Patent GmbH, Germany  
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 CODEN: GWXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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ES--2287710	T3	20071216	2004ES-4718926	20040310
US2007030531	A1	20070311	2005US-0552064	20051005
PRAI 2003DE-1015569	A	20030405		
2004WO-EP02453	W	20040310		
OS MARPAT 141:350163				
GI				



AB Title compds. [I; R<sub>1</sub> = H, A, halo, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, CF<sub>3</sub>, NO<sub>2</sub>, cyano, C(NH)NO<sub>2</sub>, OCF<sub>3</sub>; R<sub>2</sub> = (CH<sub>2</sub>)<sub>n</sub>Het, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, CF<sub>3</sub>, R<sub>3</sub>, R<sub>4</sub> = H, (CH<sub>2</sub>)<sub>n</sub>Het, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, CHO, (CH<sub>2</sub>)<sub>n</sub>SO<sub>2</sub>R, (CH<sub>2</sub>)<sub>n</sub>Het, CH<sub>2</sub>NO<sub>2</sub>, etc.; R<sub>5</sub> = H, A; A = alkyl, alkoxy, alkenyl, alkoxyalkyl; Ar = (substituted) Ph; Het = (aromatic) mono- or bicyclic heterocycle, heteroatom-containing organic residue; X = H, CH<sub>2</sub> with proviso], were prepared. Thus, [3-(4'-fluorobiphen-4-yl)-5-furan-2-yl]-1H-pyrazol-4-ylmethylmethyl(1-methylpyrrolidin-3-yl)amine showed 5-HT<sub>2A</sub> activity with IC<sub>50</sub> = 5.14E-10.

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L18 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)

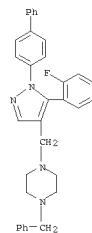
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RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(prepn. of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and/or 5-HT<sub>2C</sub> receptor  
antagonists)

IT 508219-09-8  
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(preparation of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and/or 5-HT<sub>2C</sub> receptor  
antagonists)

RN 508219-09-8 HCAPLUS  
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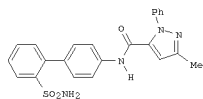
L18 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



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L25 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STM (Continued)  
 AN 1999:9820 HCAPLUS  
 DN 130:81510  
 TI Preparation of phenylpyrazolecarboxamides as coagulation factor Xa inhibitors  
 IN Galenmo, Robert Anthony, Jr.; Dominguez, Celia; Fevig, John Matthew; Nan, Qi; Lam, Patrick Yuk-sun; Pinto, Donald Joseph Philip; Pruitt, James Russell; Quan, Mini Lifan  
 PA The Du Pont Merck Pharmaceutical Company, USA  
 SO PCT Int. Appl., 259 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

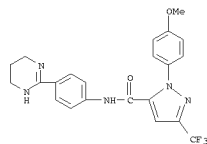
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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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CA---2290982	A1	19981223	1998CA-2290982	19980618
AU---9881503	A	19990104	1998AU-0081503	19980618
US---5998424	A	19991207	1998US-0099752	19980618
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JP2002507968	T	20020312	1999JP-0504786	19980618
AT---296805	T	20050615	1999AT-0931355	19980618
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US---6602895	B2	20030805		
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OS MARPAT 130:81510				
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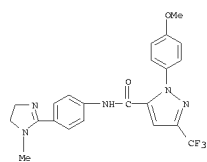
AB EZIM (I; E = halo, OH, alkyl, alkoxy, etc.; M = 22AB; A = (un)substituted carbocyclene, -heterocyclene; B = H, Y, XY; X = alkylene, CO, O, (un)substituted NH, etc.; Y = amino(alkyl), substituted carbocyclyl, -heterocyclyl, etc.; Z = bond, (heteroatom- or functional group-interrupted) alkylene, etc.; Z1 = (un)substituted Ph, Z2 = N-containing

L25 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STM (Continued)  
 AN 1999:9820 HCAPLUS  
 DN 130:81510  
 TI Preparation of phenylpyrazolecarboxamides as coagulation factor Xa inhibitors  
 IN Galenmo, Robert Anthony, Jr.; Dominguez, Celia; Fevig, John Matthew; Nan, Qi; Lam, Patrick Yuk-sun; Pinto, Donald Joseph Philip; Pruitt, James Russell; Quan, Mini Lifan  
 PA The Du Pont Merck Pharmaceutical Company, USA  
 SO PCT Int. Appl., 259 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
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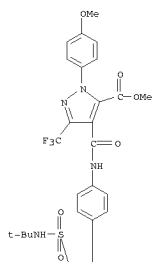
RN 218631-00-6 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, N-[4-(4,5-dihydro-1-methyl-1H-imidazol-2-yl)phenyl]-1-(4-methoxyphenyl)-3-(trifluoromethyl)- (CA INDEX NAME)



IT 218631-99-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of phenylpyrazolecarboxamides as coagulation factor Xa inhibitors)  
 RN 218631-99-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxylic acid, 4-[[[2'-[[[1,1-dimethylethylamino]sulfonyl][1,1'-biphenyl]-4-yl]amino]carbonyl]-1-(4-methoxyphenyl)-3-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

L25 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STM (Continued)

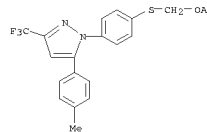
PAGE 1-A



PAGE 2-A



L25 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STM  
 AN 1997:297223 HCAPLUS  
 DN 127:33930  
 TI Remarkably mild and simple preparations of sulfonates, sulfonyl chlorides, and sulfonamides from thioanisoles  
 AU De Vleeschauwer, Marc; Gauthier, Jacques Yves  
 CS Medicinal Chemistry Department, Merck Frost Center Therapeutic Research, Quebec, QC, H9R 4P8, Can.  
 SO Synlett (1997), (4), 375-377  
 CODEN: SYNLES; ISSN: 0936-5214  
 PB Thieme  
 DT Journal  
 LA English  
 OS CASREACT 127:33930  
 AB Two high-yielding procedures to convert thioanisoles into versatile sulfonyl chloride derivs. were developed by strategically taking advantage of the Pummerer reaction. The procedures are applicable to a broad variety of substrates, including electron-rich arenes and tolerate a wide variety of common functional groups. Considering the readily availability of thioanisoles as stable starting materials, one or the other of these procedures provides a mild, simple and versatile access to the preparation of sulfonates, sulfonyl chlorides, and sulfonamides from a common intermediate.  
 IT 190711-63-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of sulfonyl chlorides and sulfonamides from thioanisoles)  
 RN 190711-63-8 HCAPLUS  
 CN Methanol, [[4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]thio]-, acetate (ester) (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 15:11:07 ON 26 DEC 2007)

FILE 'HCAPLUS' ENTERED AT 15:12:53 ON 26 DEC 2007

L1 1 US20060276650/PN

FILE 'REGISTRY' ENTERED AT 15:13:50 ON 26 DEC 2007

FILE 'HCAPLUS' ENTERED AT 15:13:53 ON 26 DEC 2007

L2 TRA L1 1- RN : 5 TERMS

FILE 'REGISTRY' ENTERED AT 15:13:53 ON 26 DEC 2007

L3 5 SEA L2

L4 STR

L5 50 L4

L6 134263 L4 FULL

E PYRAZOLE/CN

L7 1 E3

L8 49433 L6 AND 16.165.12/RID

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L9 12683 L8

L10 7656 L9 AND PD<=20030308

E SCHADT O/AU

L11 23 E3-4

E SCHIEMANN K/AU

L12 42 E3-4

E VAN AMSTERDAM C/AU

L13 53 E3-6

E BARTOSZYK G/AU

L14 122 E3-8

E SEYFRIED C/AU

L15 230 E3-6,E12-14

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L21 69 L19 AND L10

SEL HIT RN

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L22 538 E1-538

DEL SEL Y

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SEL RN 2-5

L24 4 E1-4 AND L23

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L25 2 L24

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provided by InfoChem.

STRUCTURE FILE UPDATES: 26 DEC 2007 HIGHEST RN 959588-76-2

DICTIONARY FILE UPDATES: 26 DEC 2007 HIGHEST RN 959588-76-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

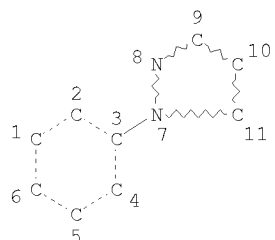
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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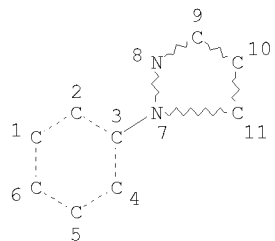
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134263 ANSWERS

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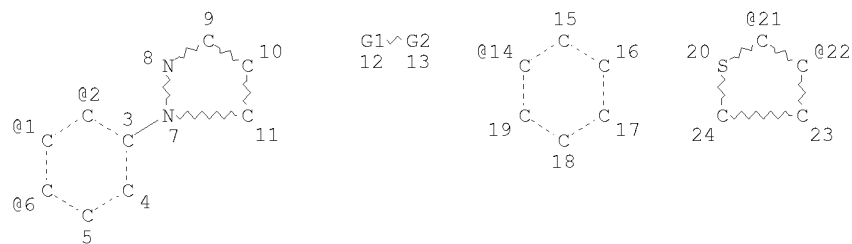


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NUMBER OF NODES IS 11



STEREO ATTRIBUTES: NONE  
 L2 134263 SEA FILE=REGISTRY SSS FUL L1  
 L3 STR



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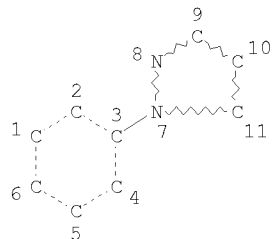
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100.0% PROCESSED 134263 ITERATIONS  
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882 ANSWERS

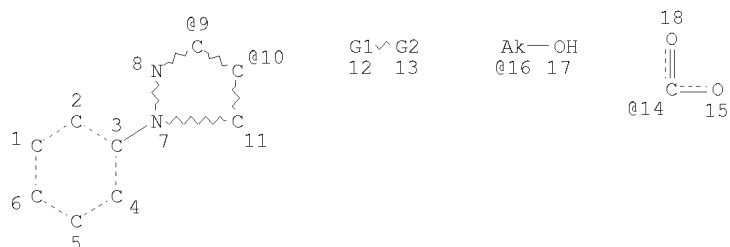
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NODE ATTRIBUTES:  
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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
 L2 134263 SEA FILE=REGISTRY SSS FUL L1  
 L32 STR



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VAR G1=9/10
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CONNECT IS E3 RC AT 6
CONNECT IS E3 RC AT 11
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 18

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100.0% PROCESSED 123705 ITERATIONS
SEARCH TIME: 00.00.01

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8106 ANSWERS

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FILE COVERS 1907 - 27 Dec 2007 VOL 147 ISS 26
FILE LAST UPDATED: 26 Dec 2007 (20071226/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L13 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)  
 AN 2004:841772 HCAPLUS  
 DN 141:350163  
 TI Preparation of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptor antagonists  
 IN Schiemann, Kai; Ackermann, Karl-August; Arlt, Michael; Finsinger, Dirk; Schadt, Oliver; Van Amsterdam, Christoph; Bartoszyk, Gerd; Seyffried, Christoph  
 PA Merck Patent GmbH, Germany  
 SO Ger. Offen., 102 pp.  
 CODEN: GWXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

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AU2004228120	A1	20041021	2004AU-0228120	20040308
CA--2521201	A1	20041021	2004CA-2521201	20040308
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US2006264419	A1	20061123	2005US-0552065	20051005
PRAI 2003DE-1015572	A	20030405		
2004WO-EP02353	W	20040308		
OS MARPAT 141:350163				
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Preparation of title compds. I [X = CH, N; R<sub>1</sub> = H, halo, (CH<sub>2</sub>)<sub>n</sub>Het, etc.; R<sub>2</sub> = (CH<sub>2</sub>)<sub>n</sub>Het, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, etc.; R<sub>3</sub>, R<sub>4</sub> = H, (CH<sub>2</sub>)<sub>n</sub>Het, CHO, etc.; n = 0-5; Ar = (un)substituted Ph; Het = (un)substituted monocarb., bicyclic-heterocycle] and their pharmaceutically acceptable salts were prepared. For example, sodium trisacetoxyborohydride mediated reductive amination of 1-methyl-piperazine and aldehyde II, e.g., prepared from 2-fluoro-4,γ-dioxo-benzenebutanonic Et ester in 4-steps, afforded the dihydrochloride salt of arylpyrazole III. In 5-HT<sub>2A</sub> receptor binding assays, 167-examples of compds. I exhibited IC<sub>50</sub> values ranging from 0.015-4.7x10<sup>-7</sup>M. Compds. I are claimed suitable as ligands of 5-HT receptors.

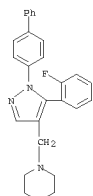
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L13 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)  
 AN 2004:841772 HCAPLUS  
 DN 141:350163  
 TI Preparation of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and/or 5-HT<sub>2C</sub> receptor antagonists.  
 IN Schadt, Oliver; Arlt, Michael; Finsinger, Dirk; Schiemann, Kai; Van Amsterdam, Christoph; Bartoszyk, Gerd; Seyffried, Christoph  
 PA Merck Patent GmbH, Germany  
 SO Ger. Offen., 78 pp.  
 CODEN: GWXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE--10315569	A1	20041014	2003DE-1015569	20030405
AU2004228124	A1	20041021	2004AU-0228124	20040310
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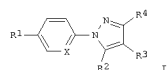
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 (prepn. of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptor antagonists)  
 II 508219-08-7P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptor antagonists)  
 PN 508219-08-7 HCAPLUS  
 CN Piperidine, 1-[(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-

L13 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)  
 yl)methyl]- (CA INDEX NAME)



L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN  
 AN 2004:841772 HCAPLUS  
 DN 141:332186  
 TI Preparation of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and/or 5-HT<sub>2C</sub> receptor antagonists.  
 IN Schadt, Oliver; Arlt, Michael; Finsinger, Dirk; Schiemann, Kai; Van Amsterdam, Christoph; Bartoszyk, Gerd; Seyffried, Christoph  
 PA Merck Patent GmbH, Germany  
 SO Ger. Offen., 78 pp.  
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE--10315569	A1	20041014	2003DE-1015569	20030405
AU2004228124	A1	20041021	2004AU-0228124	20040310
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OS MARPAT 141:332186				
GI				



AB Title compds. [I; R<sub>1</sub> = H, A, halo, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, CF<sub>3</sub>, NO<sub>2</sub>, cyano, C(NH)<sub>2</sub>NOH, CCF<sub>3</sub>; R<sub>2</sub> = (CH<sub>2</sub>)<sub>n</sub>Het, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, CF<sub>3</sub>; R<sub>3</sub>, R<sub>4</sub> = H, (CH<sub>2</sub>)<sub>n</sub>Het, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, CHO, (CH<sub>2</sub>)<sub>n</sub>SO<sub>2</sub>R, (CH<sub>2</sub>)<sub>n</sub>Het, CH<sub>2</sub>NOH, etc.; R<sub>5</sub> = H, A; A = alkyl, alkoxy, alkenyl, alkoxyalkyl; Ar = (substituted) Ph; Het = (aromatic) mono- or bicyclic heterocyclyl, heteroatom-containing organic residue; X = H, CH<sub>3</sub> with proviso(s), were prepared. Thus, [3-(4'-fluorobiphen-4-yl)-5-furan-2-yl]-1H-pyrazol-4-ylmethylmethyl(1-methylpyrrolidin-3-yl)amine showed 5-HT<sub>2A</sub> activity with IC<sub>50</sub> = 5.14E-10.

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L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)

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770740-67-5 770740-68-6 770740-69-7  
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770740-73-3 771525-15-6

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(prepn. of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and/or 5-HT<sub>2C</sub> receptor  
antagonists)

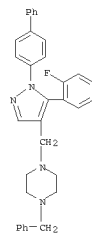
II 508219-09-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(preparation of arylpyrazoles as serotonin 5-HT<sub>2A</sub> and/or 5-HT<sub>2C</sub> receptor  
antagonists)

RN 508219-09-8 HCAPLUS

CN Piperazine, 1-([1-[1,1'-biphenyl]-4-yl]-5-[2-fluorophenyl]-1H-pyrazol-4-yl)methyl-4-(phenylmethyl)- (CA INDEX NAME)

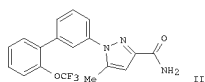
L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



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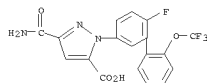
L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RN 2004:902556 HCAPLUS  
 DN 141379921  
 TI Biaryl-substituted pyrazoles as sodium channel blockers, and their preparation, pharmaceutical compositions, and use in the treatment of pain  
 IN Chakravarty, Prasun K.; Fisher, Michael R.; Parsons, William M.; Tyagarajan, Sriman; Zhou, Bishan  
 PA Merck & Co., Inc., USA  
 SO PCT Int. Appl., 104 pp.  
 CODEN: PIIXX2  
 DT Patent  
 LA English  
 FAN.CN1 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2004092140	A1	20041028	2004MO-US09713	20040330
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TR, TT, TE, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
FW: BW, CH, GM, GE, LG, MW, NE, SD, SL, SE, TG, UG, ZM, ZW, AM, AE, BY, KG, KE, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, MD, MR, NE, SN, TD, TG				
AU2004230854	A1	20041028	2004AU-0230854	20040330
CA-----2520804	A1	20041028	2004CA-2520804	20040330
EP-----1615895	A1	20060118	2004EP-0759062	20040330
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CL, EE, HU, PL, SK				
CN-----1798738	A	20060705	CN 2004-80014916	20040330
JP2006522130	T	20060928	2006JP-0509477	20040330
IN2005DN04296	A	20070831	2005IN-DN04296	20050922
US2006137785	A1	200606017	2005IN-DN04296	20051003
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2004MO-US09713	W	20040330		
OS MARPAT 141379921				
GI				

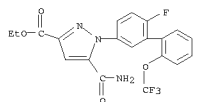


AB Biaryl-substituted pyrazole compds., which are sodium channel blockers, useful for the treatment of pain and other conditions, are disclosed. The compds. generally conform to the structure Ar1-Ar2-Ar3 [I; Ar1 = Ph with 0-3 selected substituents, typically H, Cl, CF3, OCF3, etc.; Ar2 = 1,3-phenylene, 3,5-, 2,4-, 2,6-, or 4,2-pyridinediyl, or 2,6-pyrazinediyl, all with 0-2 selected substituents, typically H, F, OCF3; Ar3 = pyrazol-1-yl or pyrazol-3(5)-yl, with 0-3 selected substituents, typically H, CO2H, CONH2, CO2Me, CO2Et, Me, etc.; including pharmaceutically acceptable salts]. Pharmaceutical compds. comprise an effective amount of I, either alone, or in combination with one or more therapeutically active compds., and a pharmaceutically acceptable carrier. Methods of treatment of conditions, including acute pain, chronic pain, visceral pain, inflammatory pain, and neuropathic pain, comprise administering an effective amount of I, either alone, or in combination with one or more therapeutically active compds. I displayed sodium channel blocking activity at compds. ranging from about <0.1 μM to about <50 μM in several described in vitro assays, e.g., in an electrophysiol. assay using an HEK-293 cell line stably expressing the PNI sodium channel subtype. Approx 300 specific invention compds. were prepared and listed individually

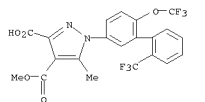
L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



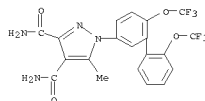
RN 784142-09-2 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 5-(aminocarbonyl)-1-[6-fluoro-2'-(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]-, ethyl ester (CA INDEX NAME)



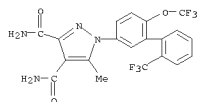
RN 784142-20-7 HCAPLUS  
 CN 1H-Pyrazole-3,4-dicarboxylic acid, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethyl)] [1,1'-biphenyl]-3-yl]-, 4-methyl ester (CA INDEX NAME)



RN 784142-21-8 HCAPLUS  
 CN 1H-Pyrazole-3,4-dicarboxamide, 1-[2',6-bis(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]-5-methyl- (CA INDEX NAME)

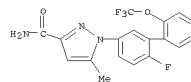


RN 784142-22-9 HCAPLUS  
 CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethyl)] [1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

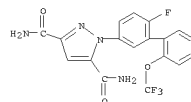


RN 784142-23-0 HCAPLUS

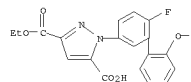
L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 in examples and/or claims. Several preps. are described in detail. For instance, invention compd. II was prep'd in 4 steps. Thus, cyclocondensation of 3-Brc6H4NHNH2.HCl with Et 2,4-dioxovalerate in refluxing AcOH gave 844 Et 1-(3-bromophenyl)-5-methyl-1H-pyrazole-3-carboxylate. Alk. hydrolysis of this ester with 2N NaOH gave 894 of the corresponding acid, which was activated with 1,1-carbonyldiimidazole and amidated with NH4OAc to give 824 1-(3-bromophenyl)-5-methyl-1H-pyrazole-3-carboxamide. Suzuki coupling of this bromide with 2-CF3C6H4B(OH)2 (prepn. given) gave 884 II.  
 II 784141-65-7P, 1-[6-fluoro-2'-(trifluoromethoxy)-1,1'-biphenyl]-3-yl]-5-methyl-1H-pyrazole-3-carboxamide 784141-99-7P  
 784142-07-0P 784142-08-1P 784142-09-2P  
 784142-20-7P 784142-21-8P 784142-22-9P  
 784142-23-0P 784142-24-1P 784142-25-2P  
 784142-26-3P 784142-27-4P 784142-28-5P  
 784142-29-6P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; preparation of biaryl-substituted pyrazoles as sodium channel blockers, particularly as analgesics)  
 RN 784141-65-7 HCAPLUS  
 CN 1H-Pyrazole-3-carboxamide, 1-[6-fluoro-2'-(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]-5-methyl- (CA INDEX NAME)



RN 784141-99-7 HCAPLUS  
 CN 1H-Pyrazole-3,5-dicarboxamide, 1-[6-fluoro-2'-(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



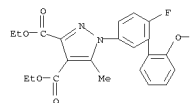
RN 784142-07-0 HCAPLUS  
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-[6-fluoro-2'-(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]-, 3-ethyl ester (CA INDEX NAME)



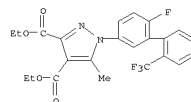
RN 784142-08-1 HCAPLUS  
 CN 1H-Pyrazole-5-carboxylic acid, 3-(aminocarbonyl)-1-[6-fluoro-2'-(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



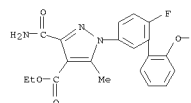
L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 CN 1H-Pyrazole-3,4-dicarboxylic acid, 1-[6-fluoro-2'-(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



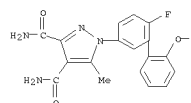
RN 784142-24-1 HCAPLUS  
 CN 1H-Pyrazole-3,4-dicarboxylic acid, 1-[6-fluoro-2'-(trifluoromethyl)] [1,1'-biphenyl]-3-yl]-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 784142-25-2 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 3-(aminocarbonyl)-1-[6-fluoro-2'-(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]-5-methyl-, ethyl ester (CA INDEX NAME)

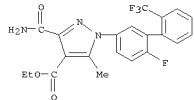


RN 784142-26-3 HCAPLUS  
 CN 1H-Pyrazole-3,4-dicarboxamide, 1-[6-fluoro-2'-(trifluoromethoxy)] [1,1'-biphenyl]-3-yl]-5-methyl- (CA INDEX NAME)

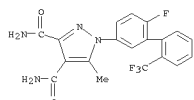


RN 784142-27-4 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 3-(aminocarbonyl)-1-[6-fluoro-2'-(trifluoromethyl)] [1,1'-biphenyl]-3-yl]-5-methyl-, ethyl ester (CA INDEX NAME)

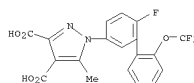
L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON SIN (Continued)



RN 784142-28-5 HCAPLUS  
 CN 1H-Pyrazole-3,4-dicarboxamide, 1-[6-fluoro-2'-(trifluoromethyl) [1,1'-biphenyl]-3-yl]-5-methyl- (CA INDEX NAME)



RN 784142-29-6 HCAPLUS  
 CN 1H-Pyrazole-3,4-dicarboxylic acid, 1-[6-fluoro-2'-(trifluoromethoxy) [1,1'-biphenyl]-3-yl]-5-methyl- (CA INDEX NAME)



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON SIN

AN 2003:27562 HCAPLUS

DN 138:304276

TI Preparation of pyrazoles as glycine transporter protein inhibitors for the treatment of neurodegenerative diseases

PA Merck Patent G.m.b.H., Germany; Yamanouchi Pharmaceutical Co.

SO Ger. Offen., 62 pp.

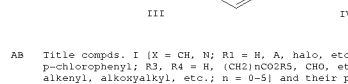
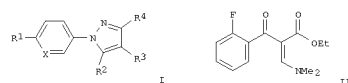
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PI	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE---	10149370	A1	20030410	2001DE-1049370	20011006
WO2003031435	A1	20030417	2002WO-EP10172	20020911	
WO2003031435	AB	20030515			
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RW: GH, GM, KE, LS, MW, NE, SD, SH, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, MD, NE, NG, SN, TD, TG					
AU2002342675	A1	20030422	2002AU-0342675	20020911	
PRAI 2001DE-1049370	A	20011006			
2002WO-EP10172	W	20020911			
OS MARPAT 138:304276					
GI					



AB Title comps. I [X = CH, N; R1 = H, A, halo, etc.; R2 = Ph, p-chlorophenyl; R3, R4 = H, (CH2)nCO2R5, CHO, etc.; R5 = H, A; A = alkyl, alkenyl, alkoxylalkyl, etc.; n = 0-5] and their pharmaceutically acceptable salts were prepared. For example, condensation of enamine II e.g., prepared from 1,1-dimethoxy-N,N-dimethylmethanamine and 2-fluoro-β-oxo-benzenebutanoic acid R5 ester, and aryl hydrazine III, e.g., prepared from 2-chloro-5-nitropyridine in 3-steps, provided pyrazole IV (no yield provided). In glycine transporter protein inhibition studies, approx. 71-examples of comps. I exhibited IC50 values ranging from 0.15 - 8.7 μM, e.g., the IC50 value of pyrazole IV = 2.5 μM. Comps. I are

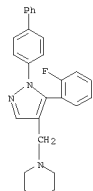
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON SIN (Continued)  
 claimed useful for the treatment of schizophrenia, depression, dementia, etc.

IT 508219-08-7P 508219-09-8P 508219-10-1P  
 508219-11-2P 508219-12-3P 508219-13-4P  
 508219-14-5P 508219-15-6P, 1-Biphenyl-4-yl-4-(2,5-dihydropyrrol-1-ylmethyl)-5-(2-fluorophenyl)-1H-pyrazol  
 508219-16-7P 508219-17-8P 508219-18-9P  
 508219-19-0P 508219-20-3P 508219-21-4P  
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 508219-25-8P 508219-26-9P 508219-27-0P  
 508219-28-1P, 3-[1-Biphenyl-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]acrylic acid 508219-29-2P, 3-[1-Biphenyl-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]acrylic acid ethyl ester  
 508219-30-3P, 3-[1-Biphenyl-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]prop-2-en-1-ol 508219-31-6P, 4-[2-[1-Biphenyl-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]-ethyl]morpholine 508219-32-7P  
 508219-33-8P 508219-34-9P 508219-35-0P, 4-[3-[1-Biphenyl-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]-allyl]morpholine  
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 508219-39-4P 508219-40-7P 508219-41-8P  
 508219-42-9P 508219-43-0P 508219-44-1P, 1-[1-Biphenyl-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]-1-(4-methyl-piperazin-1-yl)methanone 508219-45-2P 508219-46-3P  
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 508219-73-6P 508219-74-7P 508219-75-8P  
 508219-86-1P

PL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

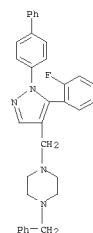
(drug candidate; preparation of pyrazoles as glycine transporter protein inhibitors for the treatment of neurodegenerative diseases)

RN 508219-08-7 HCAPLUS  
 CN Piperazine, 1-[1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl]-4-(phenylmethyl)- (CA INDEX NAME)

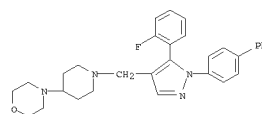


RN 508219-09-8 HCAPLUS  
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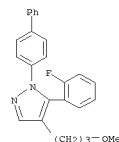
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON SIN (Continued)



RN 508219-10-1 HCAPLUS  
 CN Morpholine, 4-[1-[1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl]-4-piperidinyl]- (CA INDEX NAME)

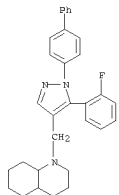


RN 508219-11-2 HCAPLUS  
 CN 1H-Pyrazole, 1-[1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-4-(3-methoxypropyl)-yl]methyl]decahydro- (CA INDEX NAME)

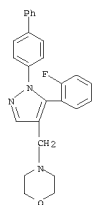


RN 508219-12-3 HCAPLUS  
 CN Quinolone, 1-[1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl]decahydro- (CA INDEX NAME)

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

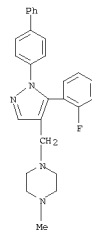


RN 508219-13-4 HCAPLUS  
 CN Morpholine, 4-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)- (CA INDEX NAME)

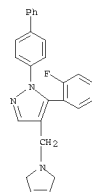


RN 508219-14-5 HCAPLUS  
 CN Piperazine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-4-methyl- (CA INDEX NAME)

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

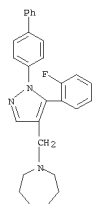


RN 508219-15-6 HCAPLUS  
 CN 1H-Pyrazole, 1-([1-[1,1'-biphenyl]-4-yl-5-(2,5-dihydro-1H-pyrol-1-yl)methyl]-5-(2-fluorophenyl)- (CA INDEX NAME)

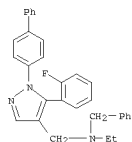


RN 508219-16-7 HCAPLUS  
 CN 1H-Azepine, 3-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)hexahydro- (CA INDEX NAME)

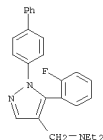
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-17-8 HCAPLUS  
 CN 1H-Pyrazole-4-methanamine, 1-([1,1'-biphenyl]-4-yl-N-ethyl-5-(2-fluorophenyl)-N-(phenylmethyl)- (CA INDEX NAME)

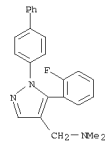


RN 508219-18-9 HCAPLUS  
 CN 1H-Pyrazole-4-methanamine, 1-([1,1'-biphenyl]-4-yl-N,N-diethyl-5-(2-fluorophenyl)- (CA INDEX NAME)

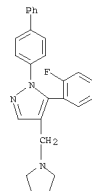


RN 508219-19-0 HCAPLUS  
 CN 1H-Pyrazole-4-methanamine, 1-([1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-N,N-dimethyl- (CA INDEX NAME)

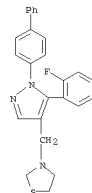
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-20-3 HCAPLUS  
 CN 1H-Pyrazole, 1-([1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-4-(1-pyrrolidinylmethyl)- (CA INDEX NAME)



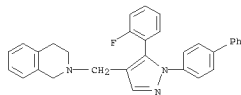
RN 508219-21-4 HCAPLUS  
 CN Thiazolidine, 3-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)- (CA INDEX NAME)



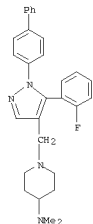
RN 508219-22-5 HCAPLUS  
 CN Isoquinoline, 2-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-1,2,3,4-tetrahydro- (CA INDEX NAME)



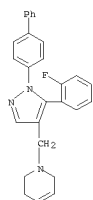
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



RN 508219-23-6 HCAPLUS  
 CN 4-Piperidinamine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl)-N,N-dimethyl- (CA INDEX NAME)

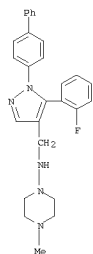


RN 508219-24-7 HCAPLUS  
 CN Pyridine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl)-1,2,3,6-tetrahydro- (CA INDEX NAME)

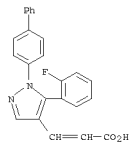


RN 508219-25-8 HCAPLUS  
 CN Piperidine, 4-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl)-1-methyl- (CA INDEX NAME)

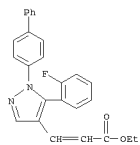
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



RN 508219-28-1 HCAPLUS  
 CN 2-Propenoic acid, 3-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)- (CA INDEX NAME)

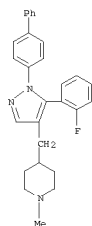


RN 508219-29-2 HCAPLUS  
 CN 2-Propenoic acid, 3-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)-, ethyl ester (CA INDEX NAME)

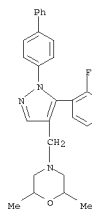


RN 508219-30-5 HCAPLUS  
 CN 2-Propen-1-ol, 3-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)- (CA INDEX NAME)

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)

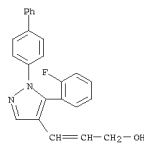


RN 508219-26-9 HCAPLUS  
 CN Morpholine, 4-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl)-2,6-dimethyl- (CA INDEX NAME)

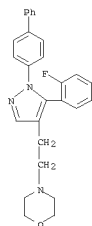


RN 508219-27-0 HCAPLUS  
 CN 1-Piperazinamine, N-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl)-4-methyl- (CA INDEX NAME)

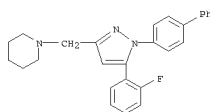
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



RN 508219-31-6 HCAPLUS  
 CN Morpholine, 4-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl)- (CA INDEX NAME)

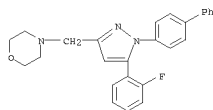


RN 508219-32-7 HCAPLUS  
 CN Piperidine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-3-yl)methyl)- (CA INDEX NAME)

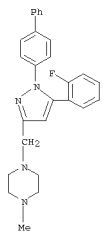


RN 508219-33-8 HCAPLUS  
 CN Morpholine, 4-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-3-yl)methyl)- (CA INDEX NAME)

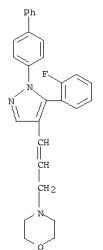
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-34-9 HCAPLUS  
 CN Piperazine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-3-yl)methyl]-4-methyl- (CA INDEX NAME)

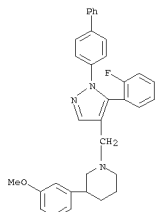


RN 508219-35-0 HCAPLUS  
 CN Morpholine, 4-[3-[1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]-2-propenyl]- (9CI) (CA INDEX NAME)

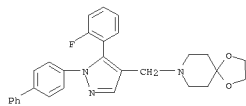


RN 508219-36-1 HCAPLUS

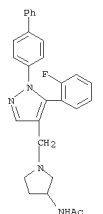
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-39-4 HCAPLUS  
 CN 1,4-Dioxo-8-azaspiro[4.5]decane, 8-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)- (CA INDEX NAME)



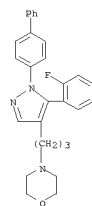
RN 508219-40-7 HCAPLUS  
 CN Acetamide, N-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-3-pyrrolidinyl- (CA INDEX NAME)



RN 508219-41-8 HCAPLUS  
 CN Piperidine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-2-methyl- (CA INDEX NAME)

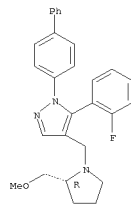
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN Morpholine, 4-[3-[1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]propyl]- (CA INDEX NAME)



RN 508219-37-2 HCAPLUS  
 CN 1H-Pyrazole, 1-([1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-4-[[[(2R)-2-(methoxymethyl)-1-pyrrolidinyl]methyl]- (CA INDEX NAME)

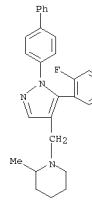
Absolute stereochemistry.



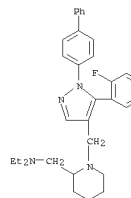
RN 508219-38-3 HCAPLUS  
 CN Piperidine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-3-(3-methoxyphenyl)- (CA INDEX NAME)



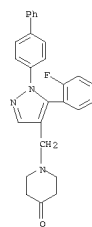
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-42-9 HCAPLUS  
 CN 2-Piperidinemethanamine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-N,N-diethyl- (CA INDEX NAME)

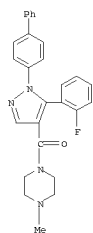


RN 508219-43-0 HCAPLUS  
 CN 4-Piperidinone, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)- (CA INDEX NAME)



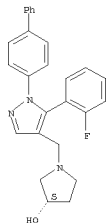
RN 508219-44-1 HCAPLUS  
 CN Piperazine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]carbonyl)-4-methyl- (9CI) (CA INDEX NAME)

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



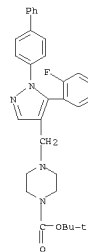
RN 508219-45-2 HCAPLUS  
 CN 3-Pyrrolidinol, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)]-1H-pyrazol-4-yl)methyl-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.

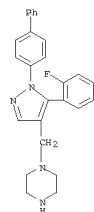


RN 508219-46-3 HCAPLUS  
 CN 1-Piperazinecarboxylic acid, 4-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)]-1H-pyrazol-4-yl)methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

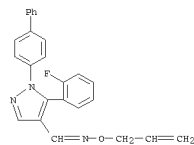
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-47-4 HCAPLUS  
 CN Piperazine, 1-([1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)]-1H-pyrazol-4-yl)methyl-, (CA INDEX NAME)

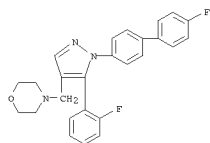


RN 508219-48-5 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-, O-2-propenyloxime (9CI) (CA INDEX NAME)

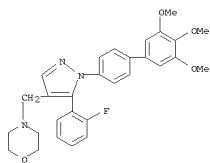


L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

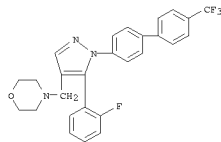
RN 508219-49-6 HCAPLUS  
 CN Morpholine, 4-([1-[4'-(4'-fluoro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)]-1H-pyrazol-4-yl)methyl)- (CA INDEX NAME)



RN 508219-51-0 HCAPLUS  
 CN Morpholine, 4-([5-(2-fluorophenyl)-1-(3',4',5'-trimethoxy[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl)methyl)- (CA INDEX NAME)

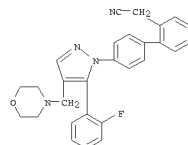


RN 508219-52-1 HCAPLUS  
 CN Morpholine, 4-([5-(2-fluorophenyl)-1-(4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl)methyl)- (CA INDEX NAME)

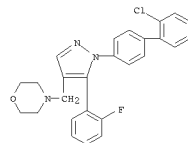


RN 508219-53-2 HCAPLUS  
 CN [1,1'-Biphenyl]-2-acetonitrile, 4'-[5-(2-fluorophenyl)-4-(4-morpholinylmethyl)-1H-pyrazol-1-yl]- (CA INDEX NAME)

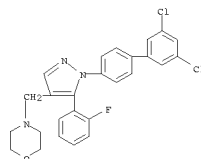
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-54-3 HCAPLUS  
 CN Morpholine, 4-([1-(2'-chloro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl)- (CA INDEX NAME)

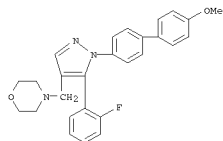


RN 508219-55-4 HCAPLUS  
 CN Morpholine, 4-([1-(3',5'-dichloro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl)- (CA INDEX NAME)

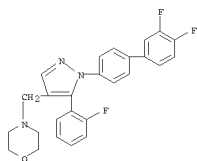


RN 508219-56-5 HCAPLUS  
 CN Morpholine, 4-([5-(2-fluorophenyl)-1-(4'-methoxy[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl)methyl)- (CA INDEX NAME)

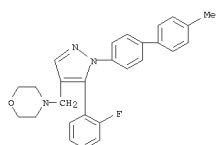
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



RN 508219-57-6 HCAPLUS  
 CN Morpholine, 4-([1-(3',4'-difluoro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

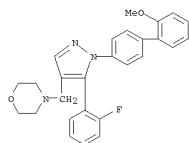


RN 508219-58-7 HCAPLUS  
 CN Morpholine, 4-([5-(2-fluorophenyl)-1-(4'-methyl[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

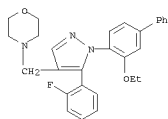


RN 508219-59-8 HCAPLUS  
 CN Morpholine, 4-([5-(2-fluorophenyl)-1-(3'-methoxy[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

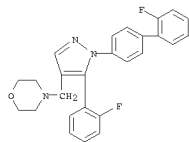
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



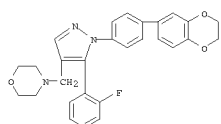
RN 508219-63-4 HCAPLUS  
 CN Morpholine, 4-([1-(3-ethoxy[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



RN 508219-64-5 HCAPLUS  
 CN Morpholine, 4-([1-(2'-fluoro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

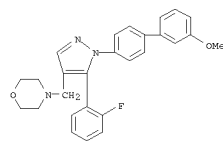


RN 508219-65-6 HCAPLUS  
 CN Morpholine, 4-([1-(4-(2,3-dihydro-1,4-benzodioxin-6-yl)phenyl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

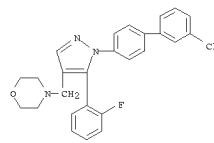


RN 508219-66-7 HCAPLUS  
 CN Morpholine, 4-([5-(2-fluorophenyl)-1-[4-(3-thienyl)phenyl]-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

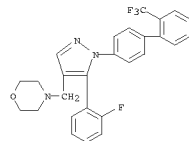
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



RN 508219-60-1 HCAPLUS  
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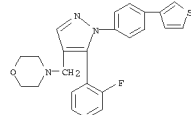


RN 508219-61-2 HCAPLUS  
 CN Morpholine, 4-([5-(2-fluorophenyl)-1-[2'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

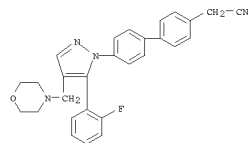


RN 508219-62-3 HCAPLUS  
 CN Morpholine, 4-([5-(2-fluorophenyl)-1-(2'-methoxy[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

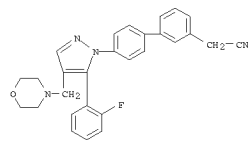
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on SIN (Continued)



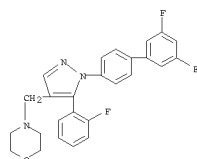
RN 508219-68-9 HCAPLUS  
 CN [1,1'-Biphenyl]-4-acetonitrile, 4'-[5-(2-fluorophenyl)-4-(4-morpholinylmethyl)-1H-pyrazol-1-yl]- (CA INDEX NAME)



RN 508219-69-0 HCAPLUS  
 CN [1,1'-Biphenyl]-3-acetonitrile, 4'-[5-(2-fluorophenyl)-4-(4-morpholinylmethyl)-1H-pyrazol-1-yl]- (CA INDEX NAME)

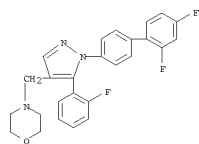


RN 508219-70-3 HCAPLUS  
 CN Morpholine, 4-([1-(3',5'-difluoro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

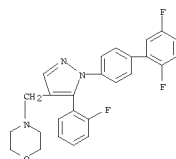


RN 508219-71-4 HCAPLUS  
 CN Morpholine, 4-([1-(2',4'-difluoro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

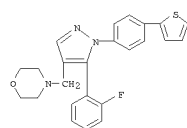
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
(CA INDEX NAME)



RN 508219-72-5 HCAPLUS  
CN Morpholine, 4-([1-(2',5'-difluoro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)- (CA INDEX NAME)

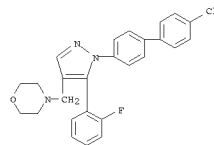


RN 508219-73-6 HCAPLUS  
CN Morpholine, 4-([1-(5-(2-fluorophenyl)-1-[4-(2-thienyl)phenyl]-1H-pyrazol-4-yl]methyl)- (CA INDEX NAME)

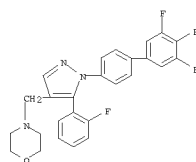


RN 508219-74-7 HCAPLUS  
CN Morpholine, 4-([1-(4'-chloro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)- (CA INDEX NAME)

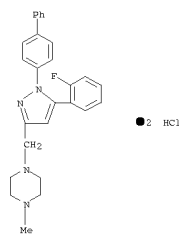
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-75-8 HCAPLUS  
CN Morpholine, 4-([1-(5-(2-fluorophenyl)-1-(3',4',5'-trifluoro[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl]methyl)- (CA INDEX NAME)

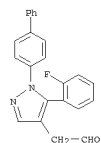


RN 508219-86-1 HCAPLUS  
CN Piperazine, 1-([1-(1,1'-biphenyl)-4-yl]-5-(2-fluorophenyl)-1H-pyrazol-3-yl]methyl)-4-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

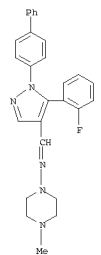


IT 508219-84-9 508219-85-0 508219-87-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of pyrazoles as glycine transporter protein inhibitors for the treatment of neurodegenerative diseases)  
RN 508219-84-9 HCAPLUS  
CN 1H-Pyrazole-4-acetaldehyde, 1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-

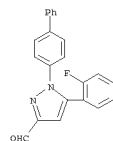
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
(CA INDEX NAME)



RN 508219-85-0 HCAPLUS  
CN 1-Piperazinamine, N-([1-(1,1'-biphenyl)-4-yl]-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl)-4-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



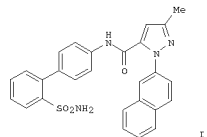
RN 508219-87-2 HCAPLUS  
CN 1H-Pyrazole-3-carboxaldehyde, 1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)- (CA INDEX NAME)



=> d bib abs hitstr 146 tot

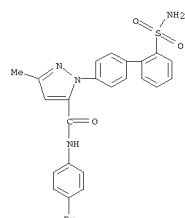
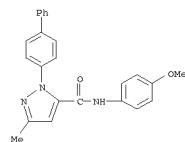
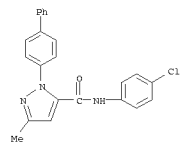
L46 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 RN 2002:522631 HCAPLUS  
 DN 137:93747  
 TI Preparation of pyrazolecarboxamides as inhibitors of factor Xa  
 IN Zhu, Bing-yang; Dia, Zhaozhong Jon; Huang, Wenrong; Song, Yonghong; Kanter, James; Scarborough, Robert M.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 303 pp., Cont.-in-part of U.S. Ser. No. 662,807.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US2004118299	A1	20040617	2003US-0600695	20030620
US2006020039	A1	20060126	2005US-0035767	20050114
US---7285565	B2	20071023		
PPAI 1999US-154332P	P	19990917		
2000US-0662807	A2	20000915		
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OS MAPPAT 137:93747				
GI				

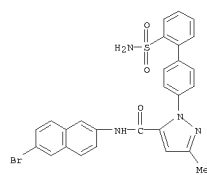
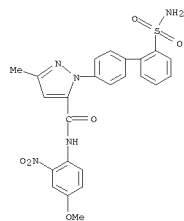
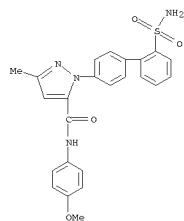


AB The title compds. AQDEGJK [A = alkyl, cycloalkyl, (un)substituted Ph, naphthyl, etc.; Q = a direct link, divalent alkyl, alkenyl, etc.; D = a direct link, (un)substituted Ph, 5-10 membered (non)aromatic heterocyclyl; E = a direct link, (CH2)qCO, CO(CH2)x, etc.; q, x = 0-2; G = (un)substituted Ph, 5-6 membered heteroaryl; J = a direct link, SO2, CO, etc.; X = (un)substituted Ph, naphthyl, 6-membered heteroaryl, etc.] having activity against mammalian factor Xa, and useful in vitro or in vivo for preventing or treating coagulation disorders, were prepared E.g., a 3-step synthesis of the pyrazolecarboxamide I was given.  
 IT 330803-16-2P 330803-17-3P 330803-18-4P  
 330803-19-5P 330803-20-6P 330803-21-9P  
 330803-22-0P 330803-23-1P 330803-24-2P  
 330803-25-3P 330803-33-3P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of pyrazolecarboxamides as inhibitors of factor Xa)  
 RN 330803-16-2 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[1,1'-biphenyl]-4-yl-N-(4-chlorophenyl)-3-methyl- (CA INDEX NAME)

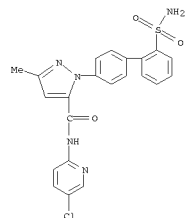
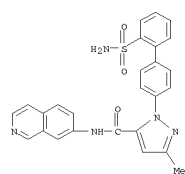
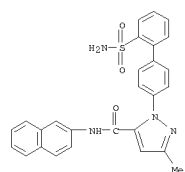
L46 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



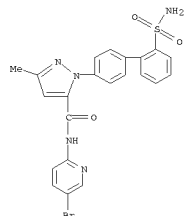
L46 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



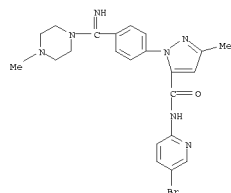
L46 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



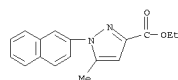
146 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 330803-33-3 HCAPLUS  
CN 1H-Pyrazole-5-carboxamide, N-(5-bromo-2-pyridinyl)-1-[4-[imino(4-methyl-1-piperazinyl)methyl]phenyl]-3-methyl- (CA INDEX NAME)

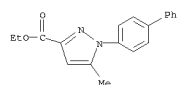


IT 330803-41-3P 330803-91-3P 330803-93-5P  
330803-94-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of pyrazolecarboxamides as inhibitors of factor Xa)  
RN 330803-41-3 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 5-methyl-1-(2-naphthalenyl)-, ethyl ester (CA INDEX NAME)

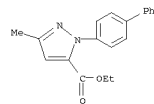


RN 330803-91-3 HCAPLUS  
CN 1H-Pyrazole-5-carboxylic acid, 1-[1,1'-biphenyl]-4-yl-3-methyl-, ethyl ester (CA INDEX NAME)

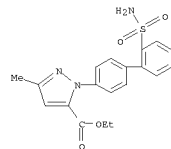
146 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



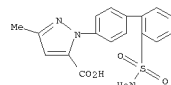
146 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



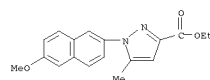
RN 330803-93-5 HCAPLUS  
CN 1H-Pyrazole-5-carboxylic acid, 1-[2'-(aminosulfonyl)-1,1'-biphenyl]-4-yl-3-methyl-, ethyl ester (CA INDEX NAME)



RN 330803-94-6 HCAPLUS  
CN 1H-Pyrazole-5-carboxylic acid, 1-[2'-(aminosulfonyl)-1,1'-biphenyl]-4-yl-3-methyl- (CA INDEX NAME)



IT 330803-76-4P 330803-92-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of pyrazolecarboxamides as inhibitors of factor Xa)  
RN 330803-76-4 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(6-methoxy-2-naphthalenyl)-5-methyl-, ethyl ester (CA INDEX NAME)

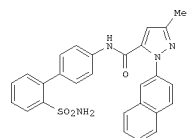


RN 330803-92-4 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-[1,1'-biphenyl]-4-yl-5-methyl-, ethyl ester (CA INDEX NAME)

146 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

AN 2001:208248 HCAPLUS  
DN 134:252334  
IT Preparation of 1-naphthyl-3-methyl-1H-pyrazole-5-carboxamides as inhibitors of factor Xa  
IN Zhu, Bing-Yan; Jia, Shaoshong Jon; Huang, Wenrong; Song, Yonghong; Kanter, James; Scarborough, Robert M.  
PA Cor Therapeutics Inc., USA  
SO PCT Int. Appl., 314 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN, CHN 6

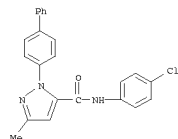
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2001019798	A2	20010322	2000WO-US25195	20000915 <--
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RW:	GH, GM, KE, LS, MW, ME, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
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EP----1216231	A2	20020626	2000EP-0963451	20000915 <--
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2000WO-US25195	W	20000915		
OS MARPAT 134:252334				
GI				



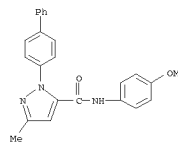
AB The title compds. AQDEGJX [A = alkyl, cycloalkyl, (un)substituted Ph; Q = a direct link, alkylene, CO, etc.; D = a direct link, (un)phenylene, etc.; E = a direct link, (CH2)qCO, SO2, etc.; q = 0-2; G = (un)substituted Ph, (un)substituted 5-6 membered (non)aromatic heterocyclic a ring containing 1-4 heteroatoms selected from N, O and S; J = a direct link, SO2, CO, etc.; X = (un)substituted Ph, naphthyl, heteroaryl] having activity against mammalian factor Xa, and therefore useful in vitro or in vivo for



L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 preventing or treating coagulation disorders, were prepd. E.g., a 3-step  
 synthesis of the pyrazolecarboxamide I was described.  
 IT 330803-16-2P 330803-17-3P 330803-18-4P  
 330803-19-5P 330803-20-6P 330803-21-9P  
 330803-22-0P 330803-23-1P 330803-24-2P  
 330803-25-3P 330803-33-3P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological  
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 1-naphthyl-3-methyl-1H-pyrazole-5-carboxamides as inhibitors  
 of factor Xa)  
 RN 330803-16-2 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[1,1'-biphenyl]-4-yl-N-(4-chlorophenyl)-3-  
 methyl- (CA INDEX NAME)

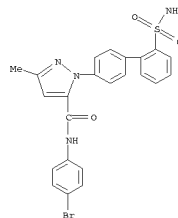


RN 330803-17-3 HCAPLUS  
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 methyl- (CA INDEX NAME)

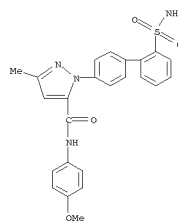


RN 330803-18-4 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-N-(4-  
 bromophenyl)-3-methyl- (CA INDEX NAME)

L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

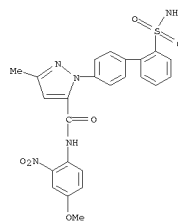


RN 330803-19-5 HCAPLUS  
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 methoxyphenyl)-3-methyl- (CA INDEX NAME)

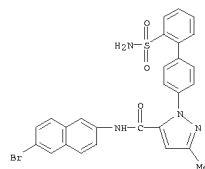


RN 330803-20-8 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-N-(4-  
 methoxy-2-nitrophenyl)-3-methyl- (CA INDEX NAME)

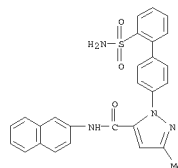
L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 330803-21-9 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-N-(6-  
 bromo-2-naphthalenyl)-3-methyl- (CA INDEX NAME)

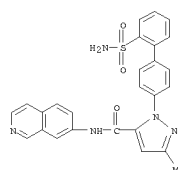


RN 330803-22-0 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-3-  
 methyl-N-2-naphthalenyl- (CA INDEX NAME)

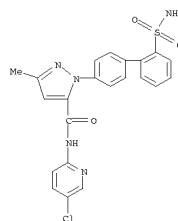


RN 330803-23-1 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-N-7-  
 isoquinolinyl-3-methyl- (CA INDEX NAME)

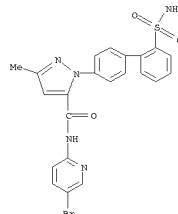
L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 330803-24-2 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-N-(5-  
 chloro-2-pyridinyl)-3-methyl- (CA INDEX NAME)

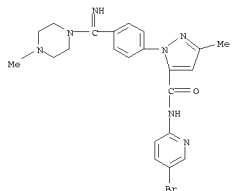


RN 330803-25-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-N-(5-  
 bromo-2-pyridinyl)-3-methyl- (CA INDEX NAME)

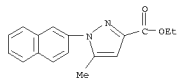


RN 330803-33-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, N-(5-bromo-2-pyridinyl)-1-[4-[imino(4-methyl-1-  
 piperazinyl)methyl]phenyl]-3-methyl- (CA INDEX NAME)

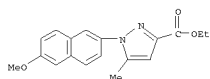
L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



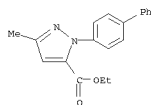
IT 330803-41-3P 330803-76-4P 330803-91-3P  
 330803-92-4P 330803-93-5P 330803-94-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation of 1-naphthyl-3-methyl-1H-pyrazole-5-carboxamides as inhibitors  
 of factor Xa)  
 RN 330803-41-3 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 5-methyl-1-(2-naphthalenyl)-, ethyl ester  
 (CA INDEX NAME)



RN 330803-76-4 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(6-methoxy-2-naphthalenyl)-5-methyl-,  
 ethyl ester (CA INDEX NAME)



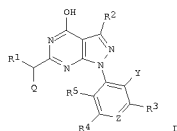
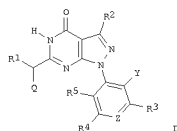
RN 330803-91-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxylic acid, 1-(1,1'-biphenyl)-4-yl-3-methyl-, ethyl  
 ester (CA INDEX NAME)



L46 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

AN 2000:260231 HCAPLUS  
 DN 132:293770  
 TI Preparation of 6-substituted pyrazolo[3,4-d]pyrimidin-4-ones as cyclin  
 dependent kinase inhibitors  
 IN Markwalder, Jay A.; Seitz, Steven P.; Sherk, Susan R.  
 PA Du Pont Pharmaceuticals Company, USA  
 SO PCT Int. Appl., 155 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN: CNT 1

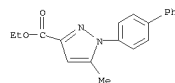
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2000021926	A2	20000420	1999WO-US23512	19991013 <--
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W: AL, AU, BR, CA, CN, CL, DE, HU, IL, IN, JP, KR, LT, LV, MK, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US-----6531477	B1	20030311	1999US-0416584	19991012
CA-----2345809	A1	20000420	1999CA-2345809	19991013 <--
EP-----1121363	A2	20010808	1999EP-0951875	19991013 <--
EP-----1121363	B1	20041222		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, IL, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP2002537223	T	20021105	2000JP-0575835	19991013 <--
AT-----285411	T	20050115	1999AT-0951875	19991013
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ES-----2235528	T3	20050701	1999ES-0951875	19991013
US2002013328	A1	20020131	2001US-0794825	20010227 <--
US-----6559152	B2	20030506		
CA-----2431338	A1	20020906	2002CA-2431338	20020227 <--
WO2002067654	A2	20020906	2002WO-US06002	20020227 <--
WO2002067654	A3	20021031		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CA, CH, CN, CO, CR, CU, CY, DE, DK, DM, DS, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TE, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, ME, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IL, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, CA, GN, GD, GW, ML, MR, NE, NG, TD, TG				
AU2002255614	A1	20020912	2002AU-0255614	20020227 <--
EP-----1383769	A2	20040128	2002EP-0725023	20020227
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, IL, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP2004520407	T	20040708	2002JP-0567036	20020227
PRAI 1998US-103957P	P	19981013		
1998US-0416584	A1	19991012		
1999WO-US23512	W	19991013		
2001US-0794825	A	20010227		
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OS MARPAT 132:293770				
GI				



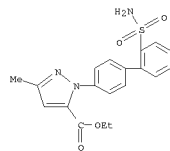
AB The title compds. [I, alternatively represented by tautomer II; Q = H, OH, Me, Et; Y = F, Cl, Br, I; Z = N, CR6; R1 = (un)substituted Ph, naphthyl,

L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

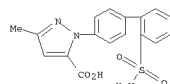
RN 330803-92-4 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(1,1'-biphenyl)-4-yl-5-methyl-, ethyl  
 ester (CA INDEX NAME)



RN 330803-93-5 HCAPLUS  
 CN 1H-Pyrazole-5-carboxylic acid, 1-[2'-(aminosulfonyl)1,1'-biphenyl]-4-yl]-  
 3-methyl-, ethyl ester (CA INDEX NAME)



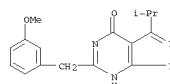
RN 330803-94-6 HCAPLUS  
 CN 1H-Pyrazole-5-carboxylic acid, 1-[2'-(aminosulfonyl)1,1'-biphenyl]-4-yl]-  
 3-methyl- (CA INDEX NAME)



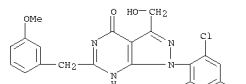
L46 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

tropone, etc.; R2 = alkyl, alkenyl, alkynyl, etc.; R3 = H, F, Cl, etc.; R4 = H, F, Cl, etc.; R5 = H, alkyl, F, etc.; R6 = H, F, Cl, etc.) which are potent inhibitors of the class of enzymes known as cyclin dependent kinases (no data), which relate to the catalytic subunits cyclin dependent kinase 1-8 and their regulatory subunits known as cyclins A-M, K, N, and T, and are useful in treating cancer or other proliferative diseases, were prep'd. Thus, reacting 5-amino-3-methylthio-1-(2,4,6-trichlorophenyl)pyrazole-4-carboxamide with 3-methoxyphenylacetyl chloride in the presence of NaOEt in EtOH afforded 92A I (Q = H; Y = Cl; R1 = 3-MeOC6H4; R2 = MeS; R3, R4 = H; R5 = Cl; Z = CCl).

IT 264138-33-2P 264139-02-8P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 6-substituted pyrazolo[3,4-d]pyrimidin-4-ones as cyclin dependent kinase inhibitors)  
 RN 264138-33-2 HCAPLUS  
 CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 1,5-dihydro-6-[(3-methoxyphenyl)methyl]-3-(1-methyl-ethyl)-4-oxo-1H-pyrazolo[3,4-d]pyrimidin-1-yl]1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



RN 264139-02-8 HCAPLUS  
 CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 1,5-dihydro-3-(hydroxymethyl)-6-[(3-methoxyphenyl)methyl]-1-(2,4,6-trichlorophenyl)- (CA INDEX NAME)



L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

RN 1998:50966 HCAPLUS

DN 129:144878

II Pyrazole derivatives for cannabinoid receptor modulators, preparation, and therapeutic use

IN Xiang, Via Ning; Elliott, John Duncan; Atkinson, Steven Todd; Christensen, Siegfried Benjamin, IV

PA Smithkline Beecham Corp., USA

SO PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CN1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO-9831227	A1	19980723	1998WO-US01175	19980120 <--
W: CA, JP, US				
RM: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA-2278307	A1	19980723	1998CA-2278307	19980120 <--
EP-971588	A1	20000119	1998EP-0904629	19980120 <--
EP-971588	B1	20040317		
R: BE, CH, DE, ES, FR, GB, IT, LT, NL				
JP2001508799	T	20010703	1998JP-0534688	19980120 <--
ES-2213892	T3	20040901	1998ES-0904629	19980120
US-6100259	A	20000808	1999US-0355151	19991015 <--
PRAI 199705-035073P	P	19970322		
1998WO-US01175	W	19980120		

OS MARPAT 129:144878

AB Pyrazole derivs. are provided which are cannabinoid receptor modulators. The compds. of the invention may be used to treat a variety of diseases, e.g. immunol.-mediated inflammatory diseases and renal ischemia. Preparation of Et 5-(2-morpholin-4-ylethoxy)-1-[4-(2-formylphenyl)phenyl]pyrazole-4-carboxylate is described.

II 66530-36-7P 210819-95-7P

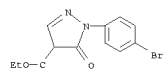
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and reaction; pyrazole derivs. for cannabinoid receptor modulators, preparation, and therapeutic use)

RN 66530-36-7 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(4-bromophenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)

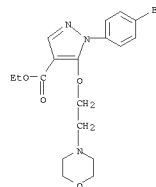


RN 210819-95-7 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(4-bromophenyl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

(Continued)



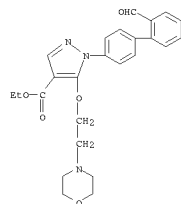
IT 210819-24-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(pyrazole derivs. for cannabinoid receptor modulators, preparation, and therapeutic use)

RN 210819-24-2 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-formyl[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)



IT 210819-25-3 210819-26-4 210819-27-5

210819-28-6 210819-29-7 210819-30-0

210819-31-1 210819-33-3 210819-34-4

210819-35-5 210819-36-6 210819-37-7

210819-40-2 210819-42-4 210819-48-0

210819-52-6 210819-53-7 210819-54-8

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210819-83-3 210819-84-4 210819-85-5

210819-86-6 210819-91-3 210819-92-4

210819-93-5 210819-94-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

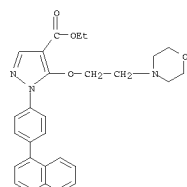
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(Uses)

(pyrazole derivs. for cannabinoid receptor modulators, prepn., and therapeutic use)

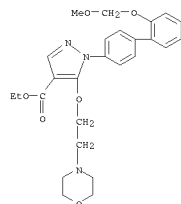
RN 210819-25-3 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 5-[2-(4-morpholinyl)ethoxy]-1-[4-(1-naphthalenyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 210819-26-4 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(methoxymethoxy)[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

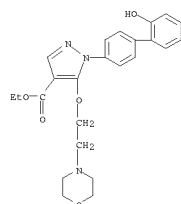


RN 210819-27-5 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-hydroxy[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

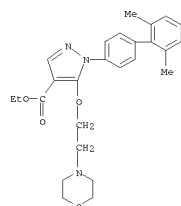
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

(Continued)



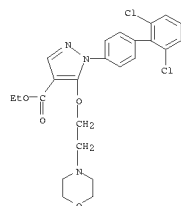
RN 210819-28-6 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(2',6'-dimethyl[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)



RN 210819-29-7 HCAPLUS

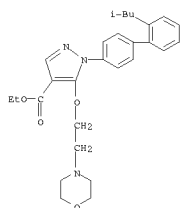
CN 1H-Pyrazole-4-carboxylic acid, 1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)



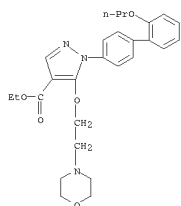
RN 210819-30-0 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(2-methylpropyl)[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



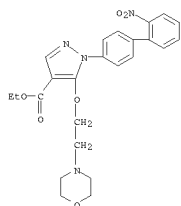
RN 210819-31-1 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 5-[2-(4-morpholinyl)ethoxy]-1-(2'-propoxy[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)



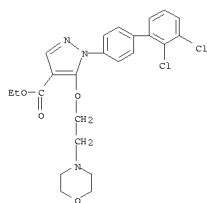
RN 210819-33-3 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(hydroxymethyl)[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

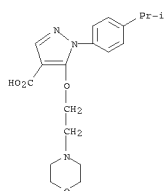
RN 210819-36-6 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 5-[2-(4-morpholinyl)ethoxy]-1-(2'-nitro[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)



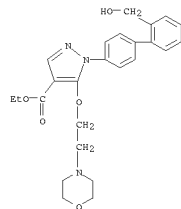
RN 210819-37-7 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-(2',3'-dichloro[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)



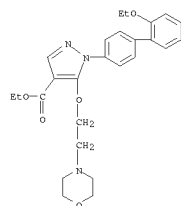
RN 210819-40-2 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[4-(1-methylethyl)phenyl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)



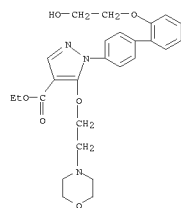
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-34-4 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-ethoxy[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

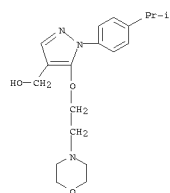


RN 210819-35-5 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(2-hydroxyethoxy)[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

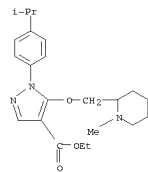


L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

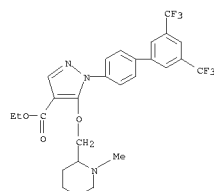
RN 210819-42-4 HCAPLUS  
 CN 1H-Pyrazole-4-methanol, 1-[4-(1-methylethyl)phenyl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)



RN 210819-48-0 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[4-(1-methylethyl)phenyl]-5-[(1-methyl-2-piperidinyl)methoxy]-, ethyl ester (CA INDEX NAME)

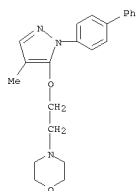


RN 210819-52-6 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[3',5'-bis(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5-[(1-methyl-2-piperidinyl)methoxy]-, ethyl ester (CA INDEX NAME)

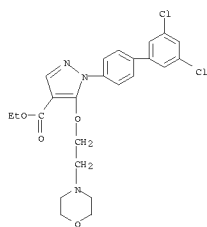


RN 210819-53-7 HCAPLUS  
 CN Morpholine, 4-[2-[(1-[2,1'-biphenyl]-4-yl-4-methyl-1H-pyrazol-5-

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
yl)oxy]ethyl]- (CA INDEX NAME)

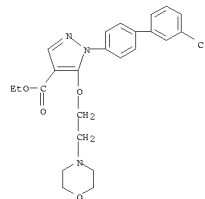


RN 210819-54-8 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(3',5'-dichloro[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

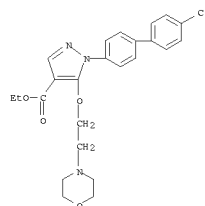


RN 210819-55-9 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(3'-chloro[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

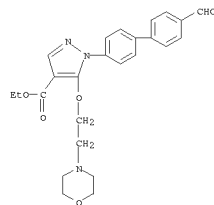
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-56-0 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-chloro[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

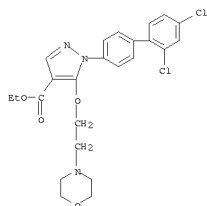


RN 210819-57-1 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-formyl[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

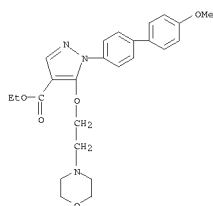


L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 210819-58-2 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2',4'-dichloro[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

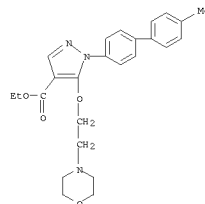


RN 210819-59-3 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-methoxy[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

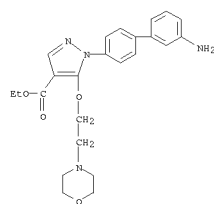


RN 210819-60-6 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-methyl[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

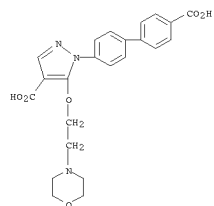
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-61-7 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(3'-amino[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

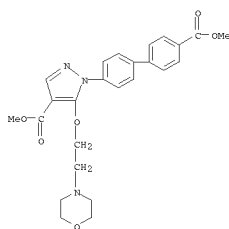


RN 210819-62-8 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-carboxy[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]- (CA INDEX NAME)

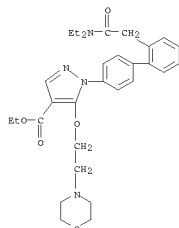


RN 210819-63-9 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-(methoxycarbonyl)[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, methyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

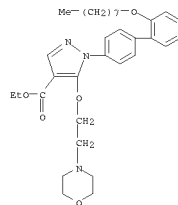


RN 210819-64-0 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(2-(diethylamino)-2-oxoethyl)]-[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

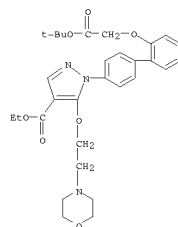


RN 210819-65-1 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 5-[2-(4-morpholinyl)ethoxy]-1-[2'-(octyloxy)]-[1,1'-biphenyl]-4-yl]-, ethyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

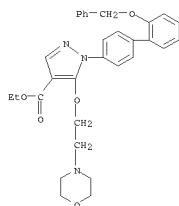


RN 210819-66-2 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(2-(1,1-dimethylethoxy)-2-oxoethyl)]-[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

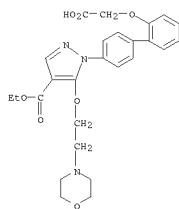


RN 210819-67-3 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 5-[2-(4-morpholinyl)ethoxy]-1-[2'-(phenylmethoxy)]-[1,1'-biphenyl]-4-yl]-, ethyl ester (CA INDEX NAME)

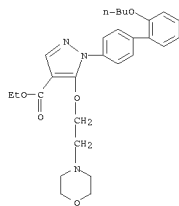
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-71-9 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(carboxymethoxy)]-[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, 4-ethyl ester (CA INDEX NAME)

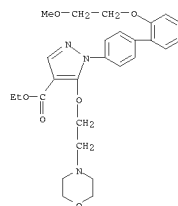


RN 210819-72-0 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(butoxy)]-[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

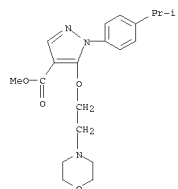


RN 210819-73-1 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[2'-(2-methoxyethoxy)]-[1,1'-biphenyl]-4-yl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

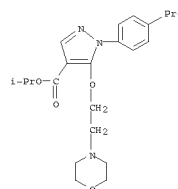
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-74-2 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[4-(1-methylethyl)phenyl]-5-[2-(4-morpholinyl)ethoxy]-, methyl ester (CA INDEX NAME)

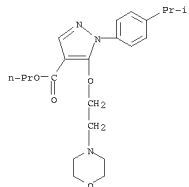


RN 210819-76-4 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[4-(1-methylethyl)phenyl]-5-[2-(4-morpholinyl)ethoxy]-, 1-methylethyl ester (CA INDEX NAME)

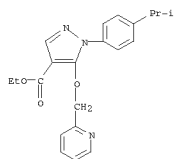


RN 210819-77-5 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[4-(1-methylethyl)phenyl]-5-[2-(4-morpholinyl)ethoxy]-, propyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

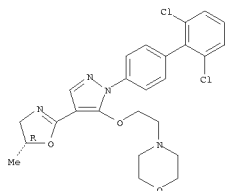


RN 210819-78-6 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[4-(1-methylethyl)phenyl]-5-(2-pyridinylmethoxy)-, ethyl ester (CA INDEX NAME)



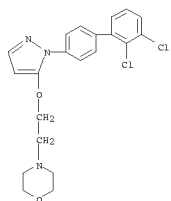
RN 210819-81-1 HCAPLUS  
 CN Morpholine, 4-[2-[[1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-4-[(5R)-4,5-dihydro-5-methyl-2-oxazolyl]-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

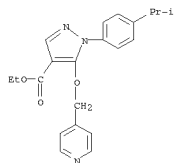


RN 210819-83-3 HCAPLUS  
 CN Morpholine, 4-[2-[[1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-4-[(5S)-4,5-dihydro-5-methyl-2-oxazolyl]-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

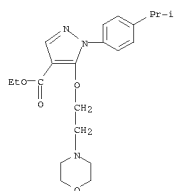
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-91-3 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[4-(1-methylethyl)phenyl]-5-(4-pyridinylmethoxy)-, ethyl ester (CA INDEX NAME)



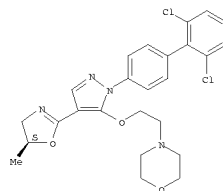
RN 210819-92-4 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-[4-(1-methylethyl)phenyl]-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)



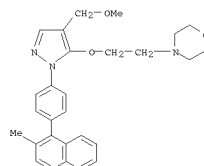
RN 210819-93-5 HCAPLUS  
 CN Morpholine, 4-[2-[[1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-4-(1-methyl-1H-tetrazol-5-yl)-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

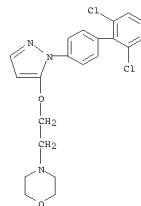
Absolute stereochemistry. Rotation (+).



RN 210819-84-4 HCAPLUS  
 CN Morpholine, 4-[2-[[4-(methoxymethyl)-1-[4-(2-methyl-1-naphthalenyl)phenyl]-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

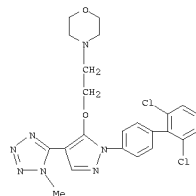


RN 210819-85-5 HCAPLUS  
 CN Morpholine, 4-[2-[[1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

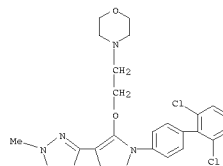


RN 210819-86-6 HCAPLUS  
 CN Morpholine, 4-[2-[[1-(2',3'-dichloro[1,1'-biphenyl]-4-yl)-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-94-6 HCAPLUS  
 CN Morpholine, 4-[2-[[1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-4-(2-methyl-2H-tetrazol-5-yl)-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

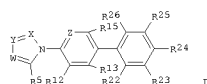


RE,CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

AN 1998:304135 HCAPLUS  
 DN 128:321643  
 TI Preparation of pesticidal 1-polyarylpzrazoles  
 IN Herman, Nancy Darnell; Huber, Scot Kevin; Huang, Jamin; Timmons, Philip  
 PA Rhone-Poulenc Agrochimie, Fr.  
 SO Eur. Pat. Appl., 38 pp.  
 CODEN: EPKXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP-----839810	A1	19980506	1997EP-0119154	19971103 <--
EP-----839810	B1	20020925		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI				
AT-----224878	T	20021015	1997AT-0119154	19971103 <--
ES-----2179254	T3	20030316	1997ES-0119154	19971103 <--
JP-----10158240	A	19980616	1997JP-0302250	19971104 <--
US-----5922884	A	19990713	1997US-0963631	19971104 <--
US-----6107322	A	20000822	1998US-0216878	19981221 <--
US-----624475	B1	20010605	2000US-0606185	20000629 <--
US2002002195	A1	20020103	2001US-0832861	20010412 <--
US-----6433002	B2	20020813		
US-----37936	E1	20021210	2001US-0903990	20010713 <--
US2002193411	A1	20021219	2002US-0152806	20020523 <--
US-----6608093	B2	20030819		
PRAI 1996US-030108P	P	19961104		
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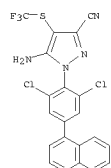


AB The title compds. (I; X = N, CR2; Y = N, CR3; W = N, CR4; R2, R3 = H, halo, OH, etc.; R4 = H, halo, alkyl, etc.; R5 = H, halo, CHO, etc.; Z = N, CR16; R12, R13, R15, R16 = H, halo, alkyl, etc.; R22-R26 = halo, alkyl, haloalkyl, etc.), useful to control pests, were prepared Thus, reaction of 5-amino-3-cyano-1-(2,6-dichloro-4-bromophenyl)-4-trifluoromethylthiopyrazole with 4-trifluoromethylphenylboronic acid in the presence of Pd2(dba)3, K2CO3 in diglyme afforded I (X = N; Y = C(CN); W = C(SCF3); R5 = NH2; Z = C(Cl); R12 = Cl; R13, R15, R22, R23, R25, R26 = H; R24 = CF3). The prepared compds. I showed rather good activity on C. elegans.

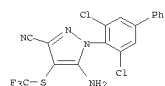
IT 207136-54-7P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of pesticidal 1-polyarylpzrazoles)

CN 207136-54-7 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(tributylstannyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

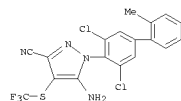
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



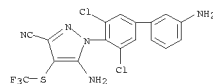
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 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207133-56-0 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-methyl[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

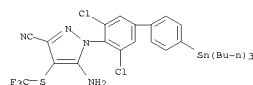


RN 207133-57-1 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3'-amino-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207133-58-2 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-nitro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

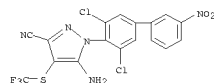
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



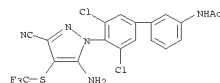
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 207134-97-2P 207134-98-3P 207134-99-4P  
 207135-00-0P 207135-01-1P 207135-02-2P  
 207135-03-3P 207135-04-4P 207135-05-5P  
 207135-06-6P 207135-07-7P 207135-08-8P  
 207135-09-9P 207135-10-2P 207135-11-3P  
 207135-12-4P 207135-13-5P 207135-14-6P  
 207135-15-7P 207135-16-8P 207135-17-9P  
 207135-18-0P 207135-19-1P 207135-20-4P  
 207135-21-5P 207135-22-6P 207136-41-6P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of pesticidal 1-polyarylpzrazoles)

RN 207133-54-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,6-dichloro-4'-(1-naphthalenylphenyl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

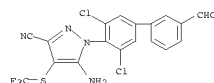
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



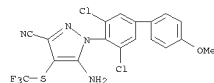
RN 207133-59-3 HCAPLUS  
 CN Acetamide, N-(4'-(5-amino-3-cyano-4-((trifluoromethyl)thio)-1H-pyrazol-1-yl)-3',5'-dichloro[1,1'-biphenyl]-3-yl)- (CA INDEX NAME)



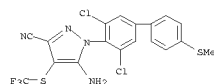
RN 207133-60-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-formyl[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207133-61-7 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-methoxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



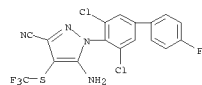
RN 207133-62-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(methylthio)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



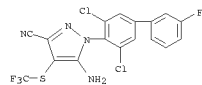
RN 207133-63-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



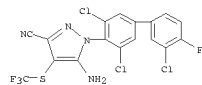
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



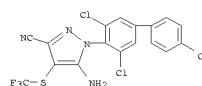
RN 207133-64-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



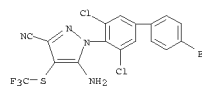
RN 207133-65-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,3',5-trichloro-4'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207133-66-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,4',5-trichloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

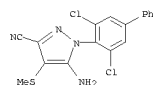


RN 207133-67-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-bromo-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

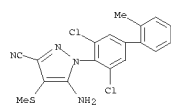


RN 207133-68-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,3',5,5'-tetrachloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

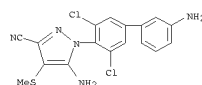
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



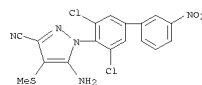
RN 207133-73-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-methyl[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



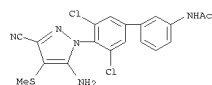
RN 207133-74-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3'-amino-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



RN 207133-75-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-nitro[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)

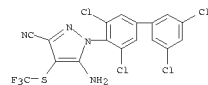


RN 207133-76-4 HCAPLUS  
CN Acetamide, N-[4'-(5-amino-3-cyano-4-(methylthio)-1H-pyrazol-1-yl)-3',5'-dichloro[1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

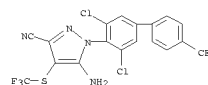


RN 207133-77-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-formyl[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)

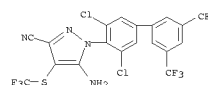
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



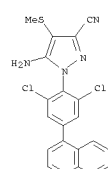
RN 207133-69-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207133-70-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3',5'-bis(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

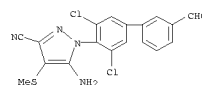


RN 207133-71-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,6-dichloro-4-(1-naphthalenyl)phenyl)-4-(methylthio)- (CA INDEX NAME)

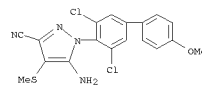


RN 207133-72-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)

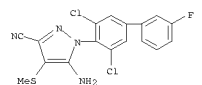
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



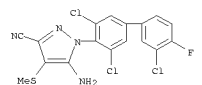
RN 207133-78-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-methoxy[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



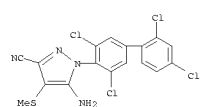
RN 207133-79-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-fluoro[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



RN 207133-80-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylthio)-1-(3,3',5-trichloro-4'-fluoro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

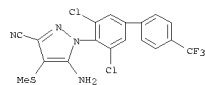


RN 207133-81-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylthio)-1-(2',3,4',5-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

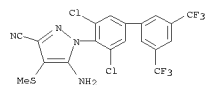


RN 207133-82-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylthio)-1-(3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

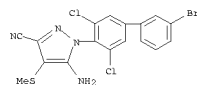
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



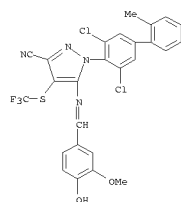
RN 207133-83-3 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-3',5'-bis(trifluoromethyl)-1,1'-biphenyl)-4-yl]-4-(methylthio)- (CA INDEX NAME)



RN 207133-84-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3-bromo-3,5-dichloro-1,1'-biphenyl)-4-yl]-4-(methylthio)- (CA INDEX NAME)



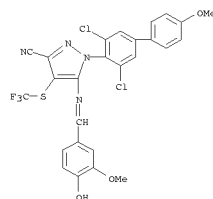
RN 207133-85-5 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-2'-methyl-1,1'-biphenyl)-4-yl)-5-[[4-hydroxy-3-methoxyphenyl)methylene]amino]-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



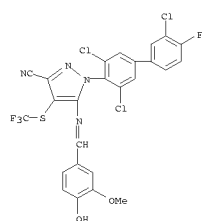
RN 207133-86-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-3'-nitro-1,1'-biphenyl)-4-yl)-5-[[4-hydroxy-3-methoxyphenyl)methylene]amino]-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

RN 207133-89-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-4'-methoxy-1,1'-biphenyl)-4-yl)-5-[[4-hydroxy-3-methoxyphenyl)methylene]amino]-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

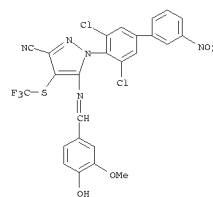


RN 207133-90-2 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-[[4-hydroxy-3-methoxyphenyl)methylene]amino]-1-(3,3',5-trichloro-4'-fluoro-1,1'-biphenyl)-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

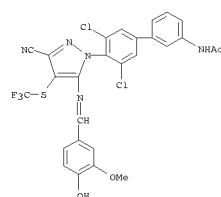


RN 207133-91-3 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-[[4-hydroxy-3-methoxyphenyl)methylene]amino]-1-(2',3,4',5-tetrachloro-1,1'-biphenyl)-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

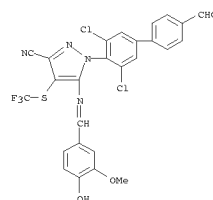
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 207133-87-7 HCAPLUS  
 CN Acetamide, N-(3',5'-dichloro-4'-[3-cyano-5-[[4-hydroxy-3-methoxyphenyl)methylene]amino]-4-[(trifluoromethyl)thio]-1H-pyrazol-1-yl]-1,1'-biphenyl-3-yl)- (CA INDEX NAME)

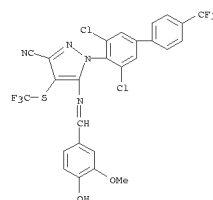
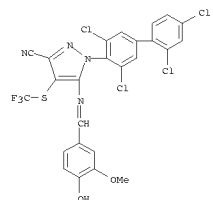


RN 207133-88-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-4'-formyl-1,1'-biphenyl)-4-yl)-5-[[4-hydroxy-3-methoxyphenyl)methylene]amino]-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

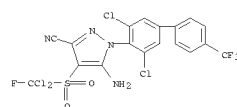


L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

RN 207133-92-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-4'-(trifluoromethyl)-1,1'-biphenyl)-4-yl)-5-[[4-hydroxy-3-methoxyphenyl)methylene]amino]-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

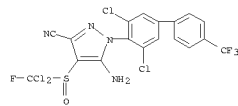


RN 207133-93-5 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-[(dichlorofluoromethyl)sulfonyl]-1-(3,5-dichloro-4'-(trifluoromethyl)-1,1'-biphenyl)-4-yl)- (CA INDEX NAME)

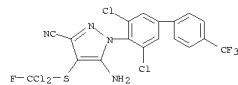


RN 207133-94-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-[(dichlorofluoromethyl)sulfonyl]-1-(3,5-dichloro-4'-(trifluoromethyl)-1,1'-biphenyl)-4-yl)- (CA INDEX NAME)

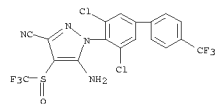
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



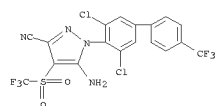
RN 207133-95-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-((dichlorofluoromethyl)thio)-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



RN 207133-96-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)sulfinyl)- (CA INDEX NAME)

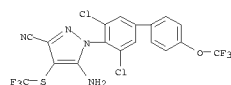


RN 207133-97-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)sulfonyl)- (CA INDEX NAME)

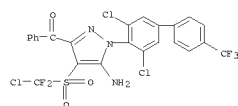


RN 207133-98-0 HCAPLUS  
CN Methanone, [5-amino-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)thio)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

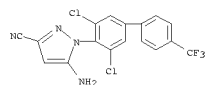
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



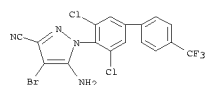
RN 207134-21-2 HCAPLUS  
CN Methanone, [5-amino-4-((chlorodifluoromethyl)sulfonyl)-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)



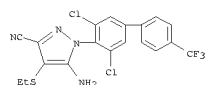
RN 207134-22-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)sulfonyl)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)



RN 207134-23-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-bromo-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)sulfonyl)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

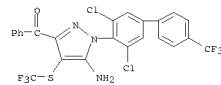


RN 207134-24-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)sulfonyl)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

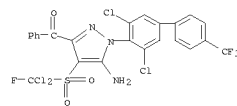


RN 207134-25-6 HCAPLUS  
CN Thiobenzoic acid, 5-amino-3-cyano-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1H-pyrazol-4-yl ester. (CA INDEX NAME)

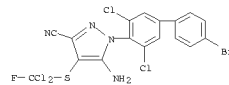
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



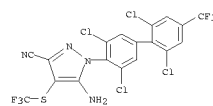
RN 207134-17-6 HCAPLUS  
CN Methanone, [5-amino-4-((dichlorofluoromethyl)sulfonyl)-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)



RN 207134-18-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[4'-bromo-3,5-dichloro[1,1'-biphenyl]-4-yl]-4-((dichlorofluoromethyl)thio)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

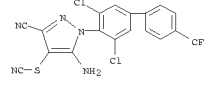


RN 207134-19-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[2',3,5,6'-tetrachloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)thio)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

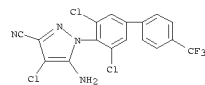


RN 207134-20-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)thio)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

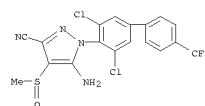
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



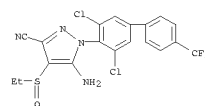
RN 207134-26-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-chloro-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)



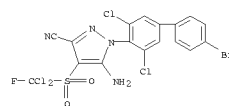
RN 207134-27-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)sulfonyl)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)



RN 207134-28-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)sulfonyl)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

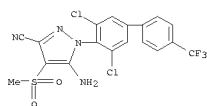


RN 207134-29-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[4'-bromo-3,5-dichloro[1,1'-biphenyl]-4-yl]-4-((dichlorofluoromethyl)sulfonyl)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

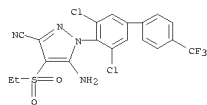


RN 207134-30-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)sulfonyl)-1H-pyrazol-3-yl]phenyl- (CA INDEX NAME)

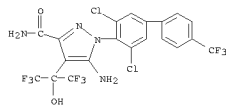
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
(trifluoromethyl) [1,1'-biphenyl]-4-yl]-4-(methylsulfonyl)- (CA INDEX NAME)



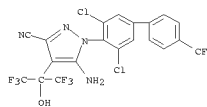
RN 207134-31-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl)-4-(ethylsulfonyl)]- (CA INDEX NAME)



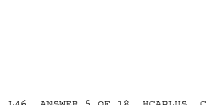
RN 207134-32-5 HCAPLUS  
CN 1H-Pyrazole-3-carboxamide, 5-amino-1-[(3,5-dichloro-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl)-4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]]- (CA INDEX NAME)



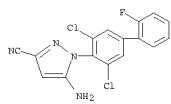
RN 207134-33-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl)-4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]]- (CA INDEX NAME)



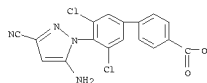
RN 207134-34-7 HCAPLUS  
CN Acetamide, N-[3-cyano-1-[(3,5-dichloro-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl)-1H-pyrazol-5-yl]]- (CA INDEX NAME)



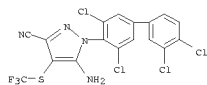
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
biphenyl]-4-yl)]- (CA INDEX NAME)



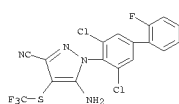
RN 207134-42-7 HCAPLUS  
CN [3,1'-Biphenyl]-4-carboxylic acid, 4'-[(5-amino-3-cyano-1H-pyrazol-1-yl)-3',5'-dichloro-, methyl ester (CA INDEX NAME)



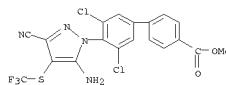
RN 207134-43-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,3',4',5-tetrachloro[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]]- (CA INDEX NAME)



RN 207134-44-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-2'-fluoro[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]]- (CA INDEX NAME)

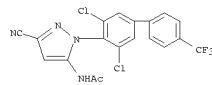


RN 207134-45-0 HCAPLUS  
CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[(5-amino-3-cyano-4-[(trifluoromethyl)thio]-1H-pyrazol-1-yl)-3',5'-dichloro-, methyl ester (CA INDEX NAME)

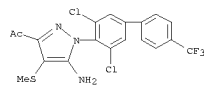


RN 207134-46-1 HCAPLUS

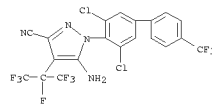
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



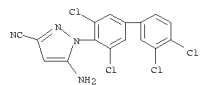
RN 207134-35-8 HCAPLUS  
CN Ethanone, 1-[5-amino-1-[(3,5-dichloro-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl)-4-(methylthio)-1H-pyrazol-3-yl]]- (CA INDEX NAME)



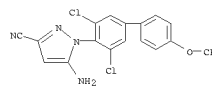
RN 207134-36-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl)-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]]- (CA INDEX NAME)



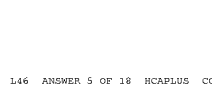
RN 207134-39-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,3',4',5-tetrachloro[1,1'-biphenyl]-4-yl)]- (CA INDEX NAME)



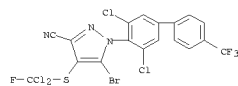
RN 207134-40-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-(trifluoromethoxy) [1,1'-biphenyl]-4-yl)]- (CA INDEX NAME)



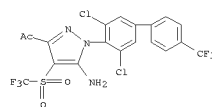
RN 207134-41-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-2'-fluoro[1,1'-biphenyl]-4-yl)]- (CA INDEX NAME)



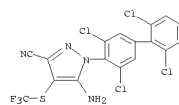
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
CN 1H-Pyrazole-3-carbonitrile, 5-bromo-4-[(dichlorofluoromethyl)thio]-1-[3,5-dichloro-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl]]- (CA INDEX NAME)



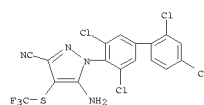
RN 207134-47-2 HCAPLUS  
CN Ethanone, 1-[5-amino-1-[(3,5-dichloro-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)sulfonyl]-1H-pyrazol-3-yl]]- (CA INDEX NAME)



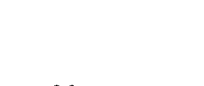
RN 207134-48-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(2',3,5,6'-tetrachloro[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]]- (CA INDEX NAME)



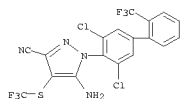
RN 207134-49-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(2',3,4',5-tetrachloro[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]]- (CA INDEX NAME)



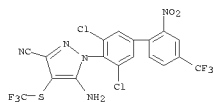
RN 207134-50-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-2'-(trifluoromethyl) [1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]]- (CA INDEX NAME)



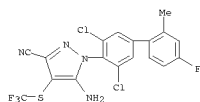
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



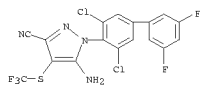
RN 207134-51-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-2'-nitro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



RN 207134-52-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-fluoro-2'-methyl[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



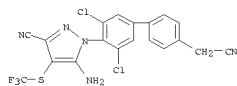
RN 207134-53-0 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-3',5'-difluoro[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



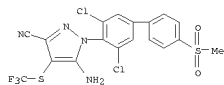
RN 207134-54-1 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-2',6'-difluoro[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

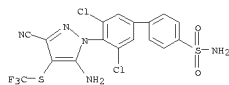
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-(cyanomethyl)[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



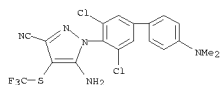
RN 207134-60-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



RN 207134-61-0 HCAPLUS  
 CN 1,1'-Biphenyl-4-sulfonamide, 4'-[5-amino-3-cyano-4-[(trifluoromethyl)thio]-1H-pyrazol-1-yl]-3',5'-dichloro- (CA INDEX NAME)

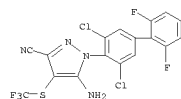


RN 207134-62-1 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-(dimethylamino)[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

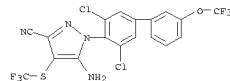


RN 207134-63-2 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(4-(1,3-benzodioxol-4-yl)-2,6-dichlorophenyl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

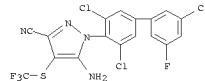
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



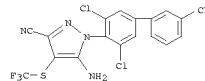
RN 207134-55-2 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



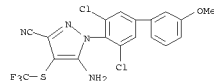
RN 207134-56-3 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,3',5-trichloro-5'-fluoro[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



RN 207134-57-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-3'-cyano[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

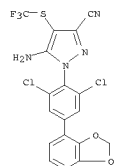


RN 207134-58-5 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-3'-methoxy[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

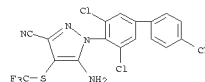


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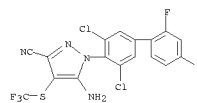
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



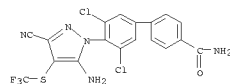
RN 207134-64-3 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-4'-cyano[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)



RN 207134-65-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-2',4'-difluoro[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

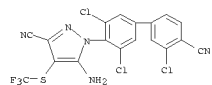


RN 207134-66-5 HCAPLUS  
 CN 1,1'-Biphenyl-4-carboxamide, 4'-[5-amino-3-cyano-4-[(trifluoromethyl)thio]-1H-pyrazol-1-yl]-3',5'-dichloro- (CA INDEX NAME)

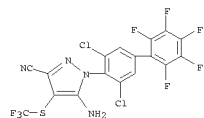


RN 207134-67-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,3',5-trichloro-4'-cyano[1,1'-biphenyl]-4-yl)-4-[(trifluoromethyl)thio]- (CA INDEX NAME)

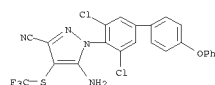
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



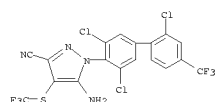
RN 207134-68-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',3',4',5',6'-pentafluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207134-69-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-phenoxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



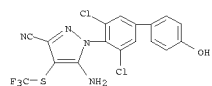
RN 207134-70-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2',3,5-trichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



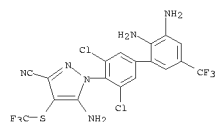
RN 207134-71-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,6-dichloro-4-(2,2-difluoro-1,3-benzodioxol-5-yl)phenyl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

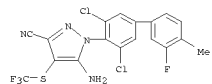
RN 207134-76-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-hydroxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



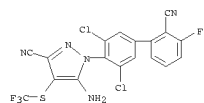
RN 207134-77-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2',3'-diamino-3,5-dichloro-5'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207134-78-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-fluoro-4'-methyl[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

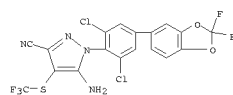


RN 207134-79-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-cyano-3'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

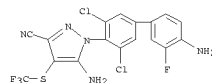


RN 207134-80-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

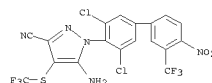
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



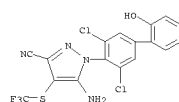
RN 207134-72-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-amino-3,5-dichloro-3'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



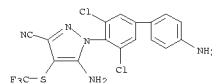
RN 207134-73-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-nitro-3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



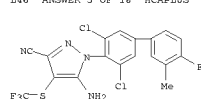
RN 207134-74-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-hydroxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



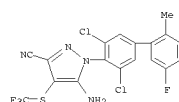
RN 207134-75-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-amino-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



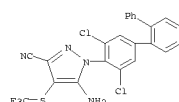
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



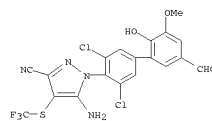
RN 207134-81-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-5'-fluoro-2'-methyl[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207134-82-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro[1,1':2',1''-terphenyl]-4-yl)-4-((trifluoromethyl)thio)- (9CI) (CA INDEX NAME)

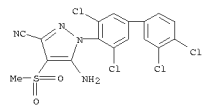


RN 207134-83-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-5'-formyl-2'-hydroxy-3'-methoxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

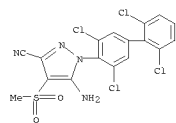


RN 207134-84-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,3',4',5-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

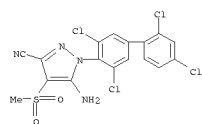
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



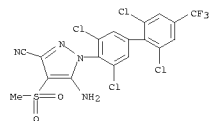
RN 207134-85-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5,6'-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



RN 207134-86-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,4',5-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

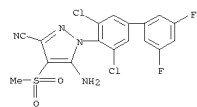


RN 207134-87-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5,6'-tetrachloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

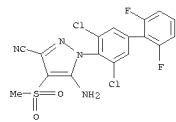


RN 207134-88-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,5-dichloro-4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

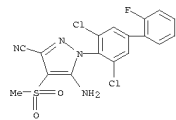
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



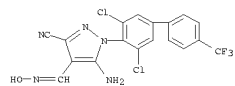
RN 207134-93-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5,6'-difluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207134-94-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,5-dichloro-2',4'-difluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

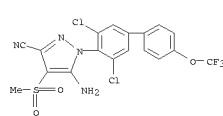


RN 207134-95-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,5-dichloro-2'-methoxy[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

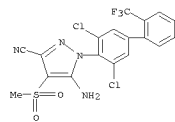


RN 207134-96-1 HCAPLUS  
CN Acetamide, N-[3-cyano-1-(3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-nitro-1H-pyrazol-5-yl]- (CA INDEX NAME)

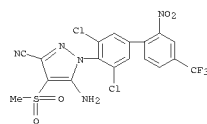
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



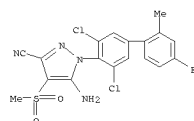
RN 207134-89-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207134-90-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-nitro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

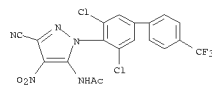


RN 207134-91-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-fluoro-2'-methyl[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

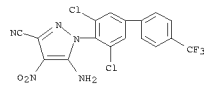


RN 207134-92-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3',5'-difluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

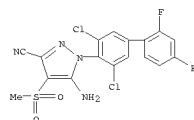
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



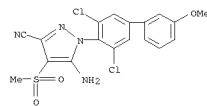
RN 207134-97-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-nitro- (CA INDEX NAME)



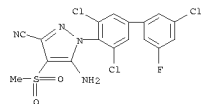
RN 207134-98-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',4'-difluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207134-99-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-methoxy[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

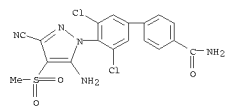


RN 207135-00-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,3',5-trichloro-5'-fluoro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

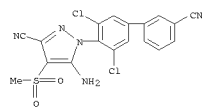


L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

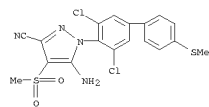
RN 207135-01-1 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxamide, 4'-[5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl]-3',5'-dichloro- (CA INDEX NAME)



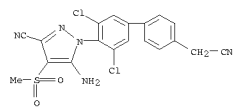
RN 207135-02-2 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-cyano[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207135-03-3 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(methylthio)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

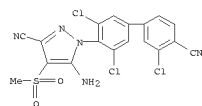


RN 207135-04-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(cyanomethyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

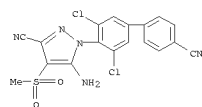


RN 207135-05-5 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

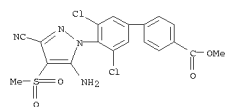
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



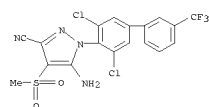
RN 207135-10-2 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-cyano[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207135-11-3 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl]-3',5'-dichloro-, methyl ester (CA INDEX NAME)

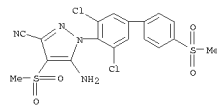


RN 207135-12-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

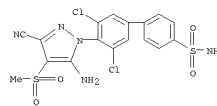


RN 207135-13-5 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',3',4',5',6'-pentafluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

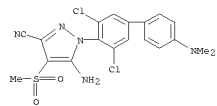
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



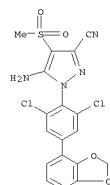
RN 207135-06-6 HCAPLUS  
 CN [1,1'-Biphenyl]-4-sulfonamide, 4'-[5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl]-3',5'-dichloro- (CA INDEX NAME)



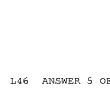
RN 207135-07-7 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(dimethylamino)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



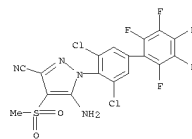
RN 207135-08-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4-(1,3-benzodioxol-4-yl)-2,6-dichlorophenyl)-4-(methylsulfonyl)- (CA INDEX NAME)



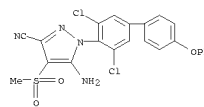
RN 207135-09-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,3',5'-trichloro-4'-cyano[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



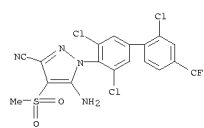
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



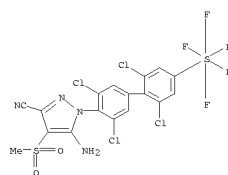
RN 207135-14-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-phenoxy[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207135-15-7 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5-trichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



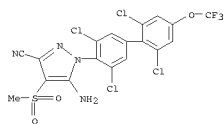
RN 207135-16-8 HCAPLUS  
 CN Sulfur, 4'-[5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl]-3,3',5,5'-tetrachloro[1,1'-biphenyl]-4-yl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



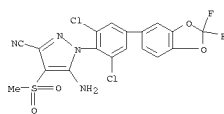
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 CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5,6'-



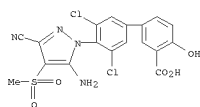
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 CN tetrachloro-4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



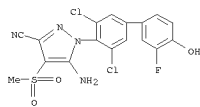
RN 207135-18-0 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(2,6-dichloro-4-((2,2-difluoro-1,3-benzodioxol-5-yl)phenyl)-4-(methylsulfonyl))- (CA INDEX NAME)]



RN 207135-19-1 HCAPLUS  
 CN [1,1'-Biphenyl]-3-carboxylic acid, 4'-[5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl]-3',5'-dichloro-4-hydroxy- (CA INDEX NAME)



RN 207135-20-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-3'-fluoro-4'-hydroxy[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl))- (CA INDEX NAME)



RN 207135-21-5 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(4'-amino-3,5-dichloro-3'-fluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl))- (CA INDEX NAME)

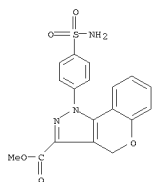
L46 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:446472 HCAPLUS  
 DN 125:114605  
 TI Preparation of cytokine-inhibiting benzopyranopyrazole antiinflammatories and analgesics  
 IN Talley, John J.; Bertenshaw, Stephen R.; Graneto, Matthew J.; Rogier, Donald J.  
 PA G.D. Searle and Co., USA  
 SO PCT Int. Appl., 195 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO-----9609304	A1	19960328	1995WO-US11403	19950915 <--
W: AM, AT, AU, BG, BR, BY, CA, CH, CN, CE, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM				
PW: KE, MW, SD, SE, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US-----5547975	A	19960820	1994US-0309291	19940920 <--
AU-----9535487	A	19960409	1995AU-0035487	19950915 <--
US-----5565482	A	19961015	1995US-0536925	19950929 <--
US-----5670532	A	19970923	1996US-0719501	19960925 <--
US-----586016	A	19980323	1997US-0809475	19970609 <--
PRAI 1994US-0309291	A	19940920		
1995WO-US11403	W	19950915		

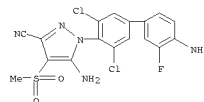
OS CASHREACT 125:114605; MARPAT 125:114605  
 GI For diagram(s), see printed CA Issue.  
 AB The title comps. [I; A = (CH2)mX(CH2)n; X = S(O)p, O; m, n, p = 0, 1; B = fused 5H or 5- and 6-membered heterocaryl; R1 = H, halogen, haloalkyl, cyano, hydroxyalkyl, formyl, alkoxy, carbonyl, alkoxy, etc.; R2 = (un)substituted aryl or heterocaryl; R4 = H, halogen, alkylthio, alkylsulfinyl, alkyl, cyano, carbonyl, etc.], useful in treating inflammation and inflammation-related disorders, are prepared. Thus, benzothioopyranopyrazolylbenzenesulfonamide II, m.p. 250-252°, prepared from 2-fluoroanisole in 8 steps, demonstrated 304 edema inhibition in a rat paw model, at 30 mg/kg.  
 IT 178975-17-2P 178975-21-8P 178975-48-9P 178975-89-8P

RL, BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of benzopyranopyrazolyl antiinflammatories and analgesics)  
 RN 178975-17-2 HCAPLUS  
 CN [1-Benzopyrano[4,3-c]pyrazole-3-carboxylic acid, 1-[4-(aminosulfonyl)phenyl]-1,4-dihydro-, methyl ester (CA INDEX NAME)]

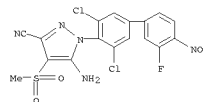


RN 178975-21-8 HCAPLUS  
 CN [1-Benzothioopyrano[4,3-c]pyrazole-3-carboxylic acid, 1-[4-(aminosulfonyl)phenyl]-1,4-dihydro-, methyl ester (CA INDEX NAME)]

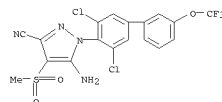
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 207135-22-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-3'-fluoro-4'-nitro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl))- (CA INDEX NAME)]

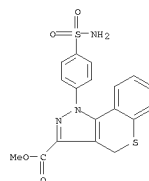


RN 207136-61-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[(3,5-dichloro-3'-trifluoromethoxy[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl))- (CA INDEX NAME)]

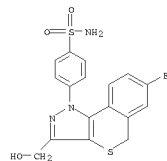


RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

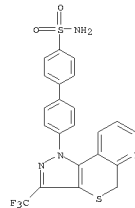
L46 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 178975-48-9 HCAPLUS  
 CN Benzenesulfonamide, 4-[7-fluoro-3-(hydroxymethyl)[2]benzothioopyrano[4,3-c]pyrazol-1(5H)-yl]- (CA INDEX NAME)]

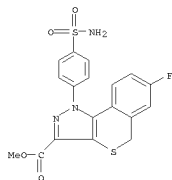


RN 178975-89-8 HCAPLUS  
 CN [1,1'-Biphenyl]-4-sulfonamide, 4'-[3-(trifluoromethyl)pyrazolo[3',4':5,6]thiopyrano[3,4-b]pyridin-1(5H)-yl]- (CA INDEX NAME)]

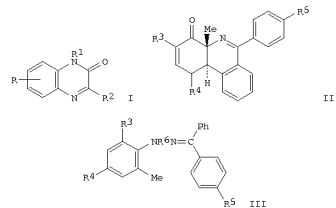


IT 178975-14-9P  
 RL, RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of benzopyranopyrazolyl antiinflammatories and analgesics)  
 RN 178975-14-9 HCAPLUS  
 CN [2]Benzothioopyrano[4,3-c]pyrazole-3-carboxylic acid, 1-[4-(aminosulfonyl)phenyl]-7-fluoro-1,5-dihydro-, methyl ester (CA INDEX NAME)]

L46 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

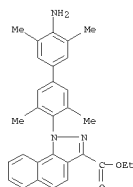


L46 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN  
 AN 1989:154265 HCAPLUS  
 DN 110:154265  
 TI Rearrangements of aromatic carbonyl arylhydrazones of benzene, naphthalene, and azulene  
 AU Benincori, Tiziana; Bradamante Pagani, Silvia; Fusco, Raffaello; Sanniccolo, Franco  
 CS Dip. Chim. Org. Ind., Univ. Milano, Milan, 20133, Italy  
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1988), (10), 2721-8  
 CODEN: JCPRB4; ISSN: 0300-922X  
 DT Journal  
 LA English  
 OS CASREACT 110:154265  
 GI

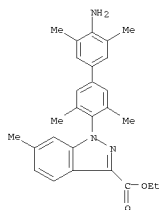


AB Aromatic carbonyl arylhydrazones undergo two kinds of rearrangement in polyphosphoric acid both involving N-H bond cleavage. The first proceeds via insertion of the imine portion in the position ortho to the second N atom to give o-phenylenediamine intermediates; their evolution depends on the nature of the starting substrate. This reaction was employed for synthesizing the quinoxalines I (R = H, 5,8-Me2; R1 = H, Me, Ph; R2 = Ph, CO2Et, 4-MeC6H4) and the phenanthridines II (R3, R4 = H, Me; R2 = H, Cl) from RC6H4NR1N:CR2CO2Et and hydrazones III (R3, R4, R6 = H, Me; R5 = H, Cl) resp. and was demonstrated to be intramolecular. The second reaction path is a [5,5] sigmatropic rearrangement exclusive to electron-rich aromatic carbonyl hydrazones.  
 IT 119867-86-6P 119867-97-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 RN 119867-86-6 HCAPLUS  
 CN 1H-Benz[gl]indazole-3-carboxylic acid, 1-(4'-amino-3,3',5,5'-tetramethyl[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)

L46 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

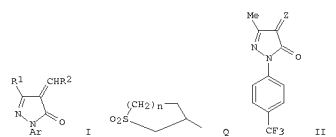


RN 119867-97-9 HCAPLUS  
 CN 1H-Indazole-3-carboxylic acid, 1-(4'-amino-3,3',5,5'-tetramethyl[1,1'-biphenyl]-4-yl)-6-methyl-, ethyl ester (CA INDEX NAME)



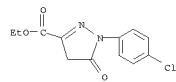
L46 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN  
 AN 1989:23881 HCAPLUS  
 DN 110:23881  
 TI Preparation of 4-(aminomethylene)-2-pyrazolin-5-ones as herbicides and fungicides  
 IN Gehring, Reinhold; Lindig, Markus; Wroblewski, Heinz Juergen; Santel, Hans Joachim; Schmidt, Robert R.; Brandes, Wilhelm; Strang, Harry  
 PA Bayer A.-G., Fed. Rep. Ger.  
 SO Ger. Offen., 155 pp.  
 CODEN: GWXBXK  
 DT Patent  
 LA German  
 FAN, CMI 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE---3728278	A1	19880623	1987DE-3728278	19870825 <--
EP---274642	A2	19880720	1987EP-0117732	19871201 <--
EP---274642	A3	19881005		
EP---274642	B1	19930811		
AT---82920	Z	19930815	1987AT-0117732	19871201 <--
ES---2058093	T3	19941101	1987ES-0117732	19871201 <--
US---4909827	A	19900320	1987US-0130380	19871208 <--
AU---8782411	A	19880623	1987AU-0082411	19871210 <--
JP---63165367	A	19880708	1987JP-0312439	19871211 <--
ZA---8709399	A	19880831	1987ZA-0009399	19871215 <--
DD---284154	A5	19901107	1987DD-0310486	19871215 <--
DE---8706617	A	19880618	1987DE-006617	19871216 <--
BR---8706838	A	19880726	1987BR-006838	19871216 <--
HU---47545	A2	19890328	1987HU-0005757	19871217 <--
US---5028717	A	19910702	1989US-0433483	19891208 <--
US---5162528	A	19921110	1991US-0650354	19910204 <--
PRAI 1986DE-3643148	A1	19861217		
1987DE-3728278	A	19870825		
1987EP-0117732	A	19871201		
1987US-0130380	A3	19871208		
1989US-0433483	A3	19891108		
OS CASREACT 110:23881; MARPAT 110:23881				
GI				

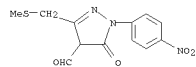


AB The title compds. (I; R1 = H, alkyl, cycloalkyl, (un)substituted alkenyl, alkynyl, heterocyclyl, etc.; R2 = (un)substituted amino, heterocyclyl; Ar = (un)substituted aryl, heterocyclyl, annelated heterocyclyl; Q; n = 1, 2) and their salts were prepared, except for the following:  
 1-(4-chlorophenyl)-3-methyl-4-(piperidinomethylene)-; -4-(morpholinomethylene)-; -4-[(p-fluoroanilino)methylene]-; and -4-(aminomethylene)-2-pyrazolin-5-one. A mixture of MeOCOCH2CO2Et, 4-F3CC6H4NNH2, and 4-MeC6H4SO3H was heated 24 h in PhMe with H2O separation to give 69.5% pyrazolinone II (Z = H2), reaction of which with H2NCH(OMe)2 in PhMe gave 82.6% II (Z = CHNMe2). The latter was treated with 30% MeNH2 to give 79.1% II (Z = CHNMe). At 500 g/ha preemergence, II (Ar = 4-ClC6H4, R1 = Pr, R2 = NMe) controlled weeds as follows: Amaranthus 100, Portulaca 95, Viola 95, Sinapis 95, and Echinochloa 90%, with no effect on cotton and rice. I (Ar = 2,4,6-Cl3C6H2, R1 = Me, R2 = NH2) at 10 ppm was sprayed on tomato plants which were then inoculated with Phytophthora infestans. Of these plants, 10% had the disease after 3 days. I are more effective herbicides and fungicides than known pyrazolinone agents.  
 IT 5583-92-1P 118031-53-3P 118031-54-2P  
 118031-55-3P 118031-56-4P 118031-57-5P  
 118031-58-6P 118049-99-3P

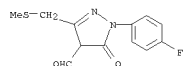
L46 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction of, in synthesis of pyrazolinone herbicide or agrochem. fungicide)  
 RN 55983-92-1 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-chlorophenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



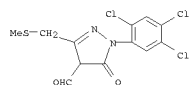
RN 118031-53-1 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 4,5-dihydro-3-[(methylthio)methyl]-1-(4-nitrophenyl)-5-oxo- (CA INDEX NAME)



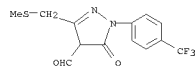
RN 118031-54-2 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-(4-fluorophenyl)-4,5-dihydro-3-[(methylthio)methyl]-5-oxo- (CA INDEX NAME)



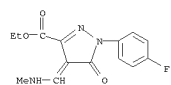
RN 118031-55-3 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 4,5-dihydro-3-[(methylthio)methyl]-5-oxo-1-(2,4,5-trichlorophenyl)- (CA INDEX NAME)



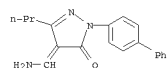
RN 118031-56-4 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 4,5-dihydro-3-[(methylthio)methyl]-5-oxo-1-(4-(trifluoromethyl)phenyl)- (CA INDEX NAME)



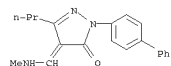
L46 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 118029-42-8 HCAPLUS  
 CN 3H-Pyrazol-3-one, 2-[1,1'-biphenyl]-4-yl-2,4-dihydro-5-propyl- (CA INDEX NAME)

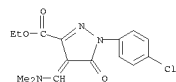


RN 118071-58-2 HCAPLUS  
 CN 3H-Pyrazol-3-one, 2-[1,1'-biphenyl]-4-yl-2,4-dihydro-4-[(methylamino)methylene]-5-propyl- (CA INDEX NAME)

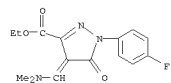


IT 118031-11-1P 118048-41-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as herbicide or agrochem. fungicide, or intermediate thereof)

RN 118031-11-1 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-chlorophenyl)-4-[(dimethylamino)methylene]-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



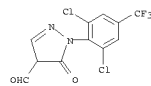
RN 118048-41-2 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 4-[(dimethylamino)methylene]-1-(4-fluorophenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



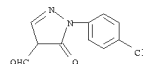
IT 118071-65-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, in synthesis of herbicide or agrochem. fungicide)  
 RN 118071-65-1 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 4,5-dihydro-3-methyl-5-oxo-1-(2,4,6-

L46 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

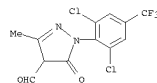
RN 118031-57-5 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4,5-dihydro-5-oxo- (CA INDEX NAME)



RN 118031-58-6 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-(4-chlorophenyl)-4,5-dihydro-5-oxo- (CA INDEX NAME)

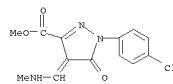


RN 118049-99-3 HCAPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4,5-dihydro-3-methyl-5-oxo- (CA INDEX NAME)



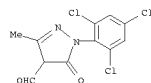
IT 118027-77-3P 118027-78-4P 118029-42-8P  
 118071-58-2P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSH (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as herbicide and agrochem. fungicide)

RN 118027-77-3 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-chlorophenyl)-4,5-dihydro-4-[(methylamino)methylene]-5-oxo-, methyl ester (CA INDEX NAME)



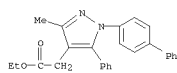
RN 118027-78-4 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-fluorophenyl)-4,5-dihydro-4-[(methylamino)methylene]-5-oxo-, ethyl ester (CA INDEX NAME)

L46 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

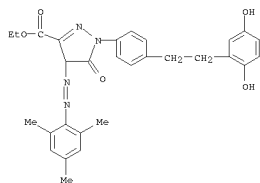


L46 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 RN 1971:449072 HCAPLUS  
 DN 75:49072  
 OREF 75:7749a,7752a  
 TI Antiphlogistic, analgesic, and antipyretic substituted pyrazole-4-acetic acid derivatives  
 IN Rainer, Georg; Riedel, Richard; Klemm, Kurt  
 PA Byk-Gulden Lomberg Chemische Fabrik G.m.b.H.  
 SO Ger. Offen., 44 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CHI 3

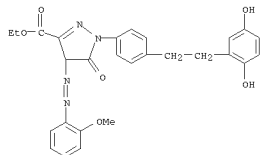
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PI DE----1946370	A	19710422	1969DE-1946370	19690912
DE----1946370	B2	19781109		
DE----1946370	C3	19790726		
CH----583707	A5	19770314	1973CH-0003460	19700828
CH----587251	A5	19770429	1970CH-0012904	19700828
GB----1307005	A	19730214	1970GB-0043147	19700909
NL----7013384	A	19710316	1970NL-0013384	19700910
CA----899836	A1	19741224	1970CA-0092873	19700910
SE----385212	B	19760614	1970SE-0012345	19700910
ZA----7006215	A	19710527	1970ZA-0006215	19700911
FR----2070689	A5	19710917	1970FR-0033102	19700911
FR----2070689	A1	19710917		
AT----304534	B	19730110	1970AT-0008261	19700911
AT----313274	B	19740211	1972AT-0001884	19700911
JP----51033906	B	19760922	1976JP-0079421	19700911
JP----53039435	B	19781021	1974JP-0062988	19740605
US----4325962	A	19820420	1978US-0969872	19781215
PRAI 1969DE-1946370	A	19690912		
1970US-0072233	A3	19700914		
GI For diagram(s), see printed CA Issue.				
AB The title comps. (I, R, RL, R2 = H, alkyl, allyl, cycloalkyl, and variously substituted phenyl and benzyl, R3 = H, Me) were prepared by the reaction of hydrazines RNNH2 with dicarbonyl comps. R1CO(R2CO)CHCH(R3CO)2H (II) or by hydrolysis of esters, amides, nitriles, etc., of I. II were prepared by base-catalyzed condensation of 1,3-diketones with alkylbromooacetates. Forty examples were given and antiphlogistic and analgesic data reported.				
IT 32701-89-6P				
RL: SPN (Synthetic preparation); PREP (Preparation)				
(preparation of)				
RN 22701-89-6 HCAPLUS				
CN 2-Pyrazole-4-acetic acid, 1-(4-biphenyl)-3-methyl-5-phenyl-, ethyl ester (8CI) (CA INDEX NAME)				



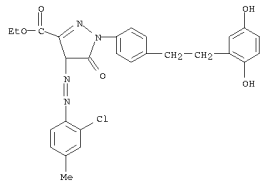
L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 1654-24-6 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(4-methoxyphenylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



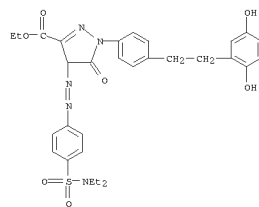
RN 1654-25-7 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 4-[(2-chloro-p-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-26-8 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

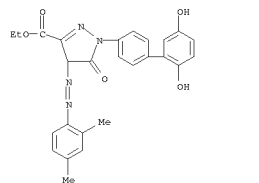
L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 RN 1967:518106 HCAPLUS  
 DN 67:118106  
 OREF 67:22307a,22310a  
 TI 1-(Hydroquinonylalkylphenyl)-3-carbethoxy-4-(arylazo)-5-pyrazolones  
 IN Green, Milton  
 PA Polaroid Corp.  
 SO U.S., 8 pp.  
 CODEN: HXKXAM  
 DT Patent  
 LA English  
 FAN.CHI 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US----3306891		19670228	1963US-0301198	19610810 <--
GI For diagram(s), see printed CA Issue.				
AB The title comps. (I) are valuable for use in photosensitive halide elements. 2,4-Me2C6H3NH2 (2 g.) was diazotized and coupled with 3 g. 1-[p-(2,5-diacetoxyphenethyl)phenyl]-3-carbethoxy-5-pyrazolone. The product in 500 ml. MeOCH2CH2OH was treated with a stream of N for 20 min. at room temperature followed by an O-free solution of 0.65 g. NaOH in 25 ml. H2O, treated with N for 90 min., and precipitated with 10 ml. concentrated HCl to give I (R = 2,4-Me2C6H3, n = 2), m. 96-101°. The following I derive. were similarly prepared (R, n, and m.p. given): 2,6-Me2C6H3, 2, 170-5°; 4-MeC6H4, 2, 207-11° (decomposition); 4-Et2NSO2C6H4, 2, 242-50° (decomposition); 2,5-Me2C6H3, 2, 185-8°; 1-ClOH7, 2, 134-40°; 2-MeOC6H4, 2, 228-32°; 2,4-Cl(Me)C6H3, 2, 106-13°; 2,6-Et2C6H3, 2, 155-7°; 2,5-Me2C6H3, 2, 130-40°; 4,2-Cl(Me)C6H3, 2, 143-9°; 2,4-Me2C6H3, 0, 128-30°; 2,4-Me2C6H3, 3, 100-5°; and 2-F3CC6H4, 2, 110-18°; 2-Et2NSO2C6H4, 2, -. IT 1654-21-3P 1654-23-5P 1654-24-6P 1654-25-7P 1654-26-6P 1697-81-0P 1697-82-1P 1697-83-2P 1697-84-3P 1697-85-4P 1697-86-5P 1697-87-6P 1830-89-3P 16317-39-8P 16317-46-7P RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)				
RN 1654-21-3 HCAPLUS				
CN 2-Pyrazoline-3-carboxylic acid, 4-[[p-(diethylsulfamoyl)phenyl]azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)				

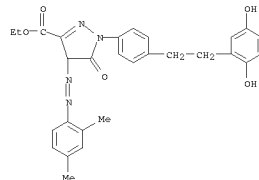


RN 1654-23-5 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesitylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

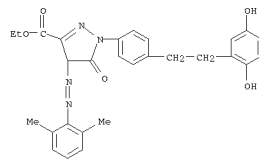
L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 1697-81-0 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

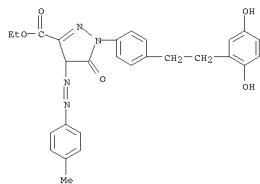


RN 1697-82-1 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,6-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



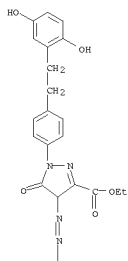
RN 1697-83-2 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(p-tolylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 1697-84-3 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(1-naphthylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

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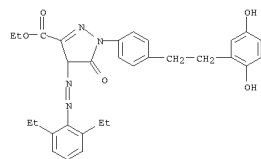


PAGE 2-A

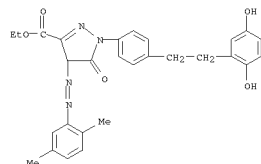


RN 1697-85-4 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 4-[(2,6-diethylphenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

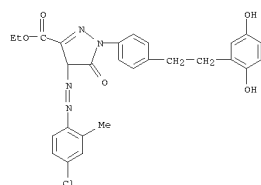
L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 1697-86-5 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,5-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

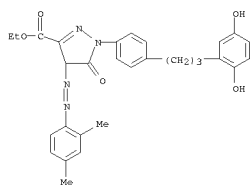


RN 1697-87-6 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 4-[(4-chloro-o-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

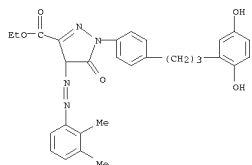


RN 1830-89-3 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

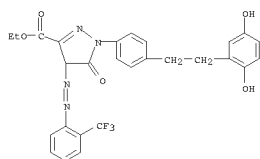
L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 16317-39-8 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (8CI) (CA INDEX NAME)



RN 16317-46-7 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-[(4,6,8-trifluoro-o-tolyl)azo]-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



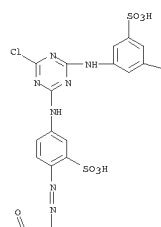
L46 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

AN 1967:474461 HCAPLUS  
 DN 67:74461  
 OREF 67:14071a,14074a  
 TI Reactive azo dyes  
 PA Imperial Chemical Industries Ltd.  
 SO Fr., 6 pp.  
 CODEN: FRXXAK  
 DT Patent  
 LA French  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR----1463287		19661223	FR	
DE----1644265			DE	
GB----1116205			GB	
US----3398133		19680820	1965US-0517823	19651230
PRAI GB		19650108		
GB		19651220		

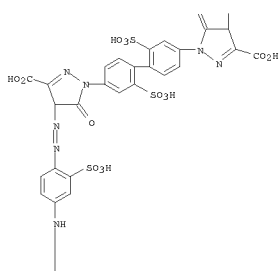
CI For diagram(s), see printed CA Issue.  
 AB Sym. bispyrazolone azo dyes of the general structure I give fast orange dyes on cotton. Thus, a neutral solution of 19.2 parts 2,4-(H2N)2C6H3SO3H in 250 parts H2O was added over 30 min. to a suspension of 18.9 parts cyanuric chloride (II) in 50 parts Me2CO and 200 parts H2O and ice at 0-5°. After 45 min. the solution was neutralized, treated with a solution of 25.3 parts 3,5-(HO3S)2C6H3NH2 (III) in 100 parts H2O, warmed to 30-5° for 4 hrs., holding pH at 7 with 2N Na2CO3, cooled to 0°, diazotized and coupled with 55.3 parts 4,4'-bis-(3'-methyl-5'-pyrazolon-1'-yl)biphenyl-2,2'-disulfonic acid (IV) to give I [X = Me, Y = 3,5-(HO3S)2C6H3NH (Q), Z = 4,1,3-HO3SC6H3]. 2,5-H2N(AcNH)C6H3CO2H = II was deacetylated and the amine copperized and treated with II-III condensate to give an orange dye. Similarly, other I (X = CO2H) were prepared (Y and Z given): Q, 3,1,4-HO3SC6H3 (R); Cl, R; MeO, R; NH2, R; Q, m-C6H4, 4,2,4,8-AcNH(H2N)ClOH4(SO3H)2 = 3'-carboxy analog of IV deacetylated and treated with 2,4-dichloro-6-(m-sulfonamido)-s-triazine also gave an orange dye.  
 IT 16325-17-OP 16325-18-IP 16325-19-2P  
 16597-03-EP 29398-08-5P  
 RL: IMP (Industrial manufacture); PREP (Preparation) (preparation of)  
 RN 16325-17-0 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1,1'-(2,2'-disulfo-4,4'-biphenylene)bis[4-[(4-[(4-chloro-6-(3,5-disulfoanilino)-s-triazin-2-yl)amino]-2-sulfophenyl)azo]-5-oxo- (8CI) (CA INDEX NAME)]

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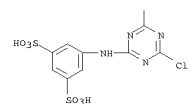


146 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

SO<sub>3</sub>H

PAGE 2-A

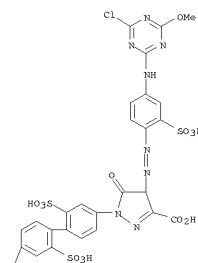


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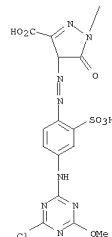
RN 16325-18-1 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1,1'-(2,2'-disulfo-4,4'-biphenylene)bis[4-[[4-[(4-chloro-6-methoxy-s-triazin-2-yl)amino]-2-sulfophenyl]azo]-5-oxo- (8CI) (CA INDEX NAME)

146 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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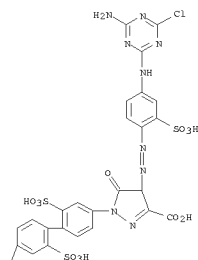
PAGE 2-A



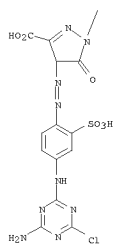
RN 16325-19-2 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1,1'-(2,2'-disulfo-4,4'-biphenylene)bis[4-[[4-[(4-amino-6-chloro-s-triazin-2-yl)amino]-2-sulfophenyl]azo]-5-oxo- (8CI) (CA INDEX NAME)

146 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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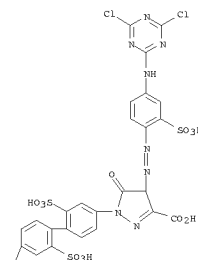
PAGE 2-A



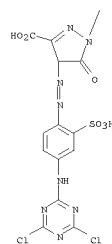
RN 16597-03-8 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1,1'-(2,2'-disulfo-4,4'-biphenylene)bis[4-[[4-[(4,6-dichloro-s-triazin-2-yl)amino]-2-sulfophenyl]azo]-5-oxo- (8CI) (CA INDEX NAME)

146 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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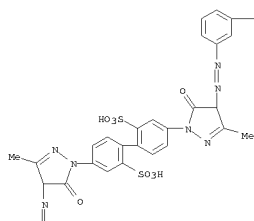
PAGE 2-A



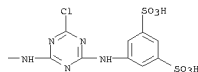
RN 29358-08-5 HCAPLUS  
 CN 2,2'-Biphenyldisulfonic acid, 4,4'-bis[4-[[[4-chloro-6-(3,5-disulfoanilino)-s-triazin-2-yl]amino]sulfonyl]azo]-3-methyl-5-oxo-2-pyrazolin-3-yl]- (8CI) (CA INDEX NAME)

146 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

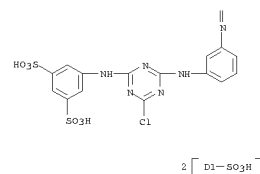
PAGE 1-A



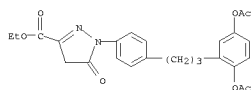
PAGE 1-B



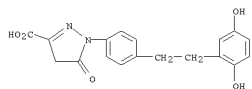
PAGE 2-A



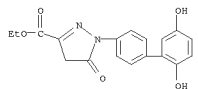
146 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



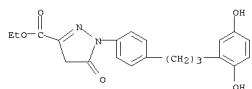
RN 6670-20-8 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-[4-(2-(2,5-dihydroxyphenyl)ethyl)phenyl]-4,5-dihydro-5-oxo- (CA INDEX NAME)



RN 6670-22-0 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(2',5'-dihydroxy[1,1'-biphenyl]-4-yl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



RN 6775-29-7 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

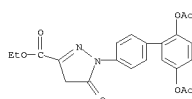


146 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

RN 1966:439073 HCAPLUS  
 DN 65:39073  
 OREF 65:7332a-d  
 TI Catalysts for the silver dye-bleach process  
 PA CIBA Ltd.  
 SO 11 pp.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI NL----	6508680	19660110	1965NL-0008680	19650706 <--
BE----	666473		BE	

PRAI CH 19640707  
 GI For diagram(s), see printed CS Issue.  
 AB H2O-insol. acylamino derivs. of quinoxaline are bleach catalysts when present in  $\geq 1$  emulsion layer at a concentration of 5-100 mg./kg. of emulsion. In an example, I (R = Me, R' = CO) (II) was prepared by passing COCl2 into a solution of 35 g. 2,3-dimethyl-6-aminoquinoxaline in 1 l. C6H6 containing 37 ml. Me2NPH while stirring and boiling under reflux for 2 hrs. The product was filtered and washed to give II, a light gray powder m. 290° (decompose) (MeOH). Similarly prepared were I (R = Me, R' = COCH2CH2CO), a red powder, m. 280° (decompose); I (R = Me, R' = CO(CH2)6CO), a yellow powder, m. 195-200° (decompose); 6-nicotinamido-2,3-diphenylquinoxaline, a gray powder, m. 278-82° (decompose); and 2,3-dimethyl-6-(p-toluenesulfonamido)quinoxaline, a yellow powder, m. 200° (decompose). A 1% solution of II (40 ml.) in MeOH was added to 1 kg. of a red-sensitive, high-speed Ag(Br,C) emulsion which contained a cyan dye of formula III. The emulsion layer was coated on baryta paper and dried to give a thickness of 6  $\mu$ . The coating was exposed to red light and then developed in a Metol-hydroquinone developer. The material was then bleached for a few min. in 1 l. aqueous solution containing 100 g. KBr, 10 g. thiourea, and 70 ml. concentrated HCl. After washing the Ag image was rehalogenated in a solution of CuSO4 in HCl, and fixed in Na2S2O3 solution 1654-20-2  
 IT (Derived from data in the 7th Collective Formula Index (1962-1966))  
 RN 1654-20-2 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)



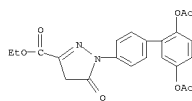
IT 1654-19-9P, 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester, diacetate (ester)  
 6670-20-8P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 6670-22-0P, 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester 6775-29-7P, 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester  
 RL: PREP (Preparation)  
 (preparation of)  
 RN 1654-19-9 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

146 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

RN 1966:439072 HCAPLUS  
 DN 65:39072  
 OREF 65:7331f-h, 7332a  
 TI Pyrazolone derivatives  
 IN Green, Milton; Moore, Phyllis  
 PA Polaroid Corp.  
 SO 6 pp.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

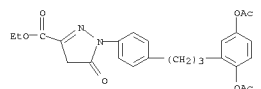
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US----	3252990	19660524	1964US-0412221	19610810 <--
PRAI US		19610810		

AB The title compds. (I), are useful as azo couplers and as photographic developing agents: 2,5-(AcO)2C6H3CHCH2C6H4NH2-4, HCl (34.9 g.) was diazotized and coupled with 21 g. EtO2CH2CH2C6H4CO2Et to give I (R = OEt, R' = Ac, n = 2) (II), n. 179-82°. A mixture of 15.35 g. II and 75 cc. n-C6H13NH2 was refluxed under N 15 hrs. to give I (R = NHn-C6H13, R' = H, n = 2), m. 136-40°. A suspension of 9.04 g. II in 300 cc. EtOH was stirred under N, cooled to -5°, treated during 5 min. with a solution of 6.0 g. NaOH in 100 ml. H2O (previously deoxygenated), stirred 1 hr. at -3° to 3°, and acidified with 12.5 ml. 12N HCl in 500 ml. H2O to give 3.5 g. I (R = OEt, R' = H, n = 2), m. 110-14°. A solution of 20 g. NaOH in 200 ml. H2O was deoxygenated with N for 20 min., treated with 9.04 g. II and heated 3 hrs. on the steam bath. The cooled solution was acidified with 150 cc. 10N HCl to give I (R = OH, R' = H, n = 2) decompose 185°. The following I derivs. were similarly prepared (R, R', n, and m.p. given): OEt, Ac, 3, 148-52°; OEt, Ac, 0, 175-9°; OEt, H, 3, --; OEt, H, 0, --.  
 IT 1654-20-2  
 (Derived from data in the 7th Collective Formula Index (1962-1966))  
 RN 1654-20-2 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

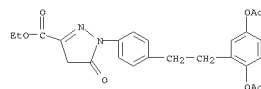


IT 1654-19-9P, 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester, diacetate (ester)  
 1667-80-9P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester, diacetate (ester)  
 6670-19-5P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 6670-20-8P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-5-oxo-, ethyl ester 6670-22-0P, 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester 6775-29-7P, 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester  
 RL: PREP (Preparation)  
 (preparation of)  
 RN 1654-19-9 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

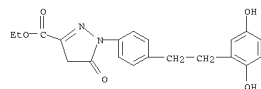
146 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



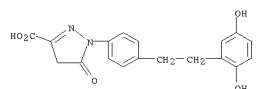
RN 1697-80-9 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-[4-(2-[2,5-bis(acetyloxy)phenyl]ethyl)phenyl]-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



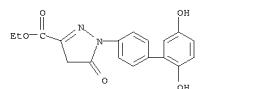
RN 6670-19-5 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-[4-(2-(2,5-dihydroxyphenyl)ethyl)phenyl]-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



RN 6670-20-8 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-[4-(2-(2,5-dihydroxyphenyl)ethyl)phenyl]-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



RN 6670-22-0 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(2',5'-dihydroxy[1,1'-biphenyl]-4-yl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



146 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1965:417330 HCAPLUS  
DN 63:17330  
OREF 63:1094a-f  
TI Dyes for color-photographic transfer images  
IN Green, Milton; Moore, Phyllis  
PA International Polaroid Corp.  
SO 47 pp.  
DT Patent  
LA Unavailable  
FAN.CNT 1

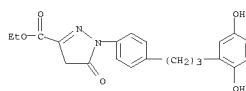
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE-----621310		19630211	BE	<--
GB-----1005237			GB	
GB-----1005238			GB	

PRAI US 19610810  
GI For diagram(s), see printed CA Issue.  
AB Color couplers of the general formula I were prepared p-[2,5-(AcO)2C6H3CH2CH2]C6H4NH2.HCl (34.9 g.) in 200 cc. H2O and 20 cc. concentrated HCl was diazotized, added slowly to 23 g. di-Et acetosuccinate (II) in 750 cc. pyridine during 0.5 hr., kept 20 hrs. at room temperature, and acidified, with cooling, with 800 cc. concentrated HCl to give 23.2 g. III (X = OEt, n = 2) (IV), m. 179-82°. p-[2,5(AcO)2C6H3(CH2)3]C6H4NH2.HCl diazotized and coupled with II gave similarly III (X = OEt, n = 3) (V), m. 148-52°. Similarly was prepared III (X = OEt, n = 0) (VI), m. 175-9°. 2,4-Me2C6H3NH2(2 g.) diazotized and coupled with IV yielded I (A = 2,4-Me2C6H3, X = OEt, n = 2) (VII), m. 86-103. Similarly were prepared the following I (X = OEt, n = 2) (A and m.p. given): 2,6-Me2C6H3, 170-5°; p-MeC6H4 (VIII), 207-11° (decomposition); p-t-BNHC6H4, 242-5° (decomposition); 2,3-Me2C6H3, 115-22° (decomposition); 2,4,6-Me3C6H2(IX), 185-8°; 1-ClOH7, 134-40°; -MeOC6H4, 228-32°; 2,4-ClMeC6H3, 106-13°; 2,6-Et2C6H3, 155-7°; 2,5-Me2C6H3, 130-40°; 4,2-ClMeC6H3, 143-9°. Similarly were prepared I (A = 2,3-Me2C6H3, X = OEt, n = 3), m. 100-5°; I (A = 2,4-Me2C6H3, X = OEt, n = 0), m. 128-30°; I (A = 2,4-Me2C6H3, X = OEt, n = 3), m. 100-5°. VIII (5.84 g.) and 30 cc. EtNH2 heated overnight in a sealed bomb under N on the water bath and acidified with dilute HCl yielded I (A = 2,4-Me2C6H3, X = NHET, n = 2), m. 245° (decomposition). Similarly were prepared the following I (A = 2,4-Me2C6H3, n = 2) (X, m.p. and maximum in na and e given): NHMe, 206-7° (decomposition), 438, 18,100; NHMe, 210-11° (decomposition), 415, 18,800; piperidino, 219-21°, 412, 19,000; NH2, 201.5-2.5°, 440, 17,400; NEt2, --, --, --, IX (0.089 g.) in 10 cc. 28 cellulose acetate hydrophthalate in 1:1 tetrahydrofuran-Me2CO coated onto a gelatin layer on a support, the resulting element coated with a AgBr-Agt emulsion sensitized for blue, exposed, brought in face-to-face contact with an image-receiving layer of a 2:1 mixture of poly(vinyl alc.) and poly(4-vinylpyridine) on a baryta paper, a solution of NaOH 5.1%, high-viscosity hydroxyethyl cellulose 4.03, Na2S2O3 1.15, benzotriazole 2.3, and N-benzyl-α-picolinium bromide 2.3 g. in 100 cc. H2O spread between the 2 elements, and the elements separated after 1 min. gave a yellow, pos. image. The color developer can also be contained in a gelatin layer. An example is given for the production of a yellow transfer image using I (A = 2,4-Me2C6H3, X = NHMe, n = 2) as the color coupler.

IT 1654-19-9P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester, diacetate (ester) 1654-20-2P, 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester, diacetate (ester) 1654-21-3P, 2-Pyrazoline-3-carboxylic acid, 4-[(p-(diethylsulfamoyl)phenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 1654-22-4P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,3-xylylazo)-, ethyl ester 1654-23-5P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesitylazo)-5-oxo-, ethyl ester 1654-24-6P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(o-methoxyphenyl)azo]-5-oxo-, ethyl ester 1654-25-7P, 2-Pyrazoline-3-carboxylic acid, 4-[(2-chloro-p-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 1654-26-8P, 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-4-(2,4-xylylazo)-, ethyl ester 1697-80-9P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester, diacetate (ester) 1697-81-0P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester 1697-82-1P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-

146 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

6775-29-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 6775-29-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 6775-29-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



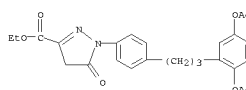
RN 6775-29-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



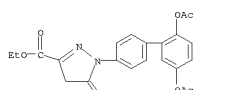
146 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

dihydroxyphenethyl)phenyl]-5-oxo-4-(2,6-xylylazo)-, ethyl ester 1697-83-3P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(p-tolylazo)-, ethyl ester 1697-84-3P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(1-naphthylazo)-5-oxo-, ethyl ester 1697-85-4P, 2-Pyrazoline-3-carboxylic acid, 4-[(2,6-diethylphenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 1697-86-5P, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,5-xylylazo)-, ethyl ester 1697-87-6P, 2-Pyrazoline-3-carboxylic acid, 4-[(4-chloro-o-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 1820-89-3P, 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester  
RL: PREP (Preparation)  
(prepn. of)

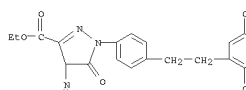
RN 1654-19-9 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)



RN 1654-20-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)



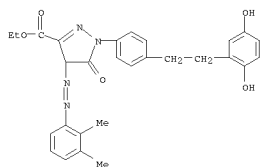
RN 1654-21-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(p-(diethylsulfamoyl)phenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



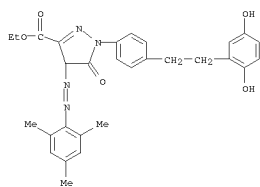
RN 1654-22-4 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-



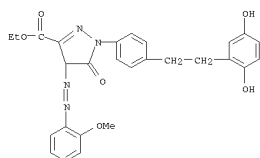
L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)  
4-(2,3-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-23-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesitylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

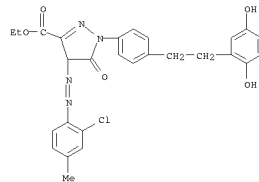


RN 1654-24-6 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(4-methoxyphenylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

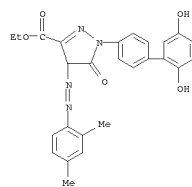


RN 1654-25-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(2-chloro-p-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

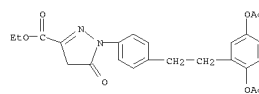
L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 1654-26-8 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

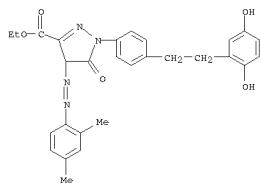


RN 1697-80-9 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-[4-[2-[2,5-bis(acetyloxy)phenyl]ethyl]phenyl]-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)

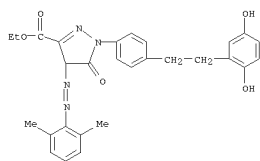


RN 1697-81-0 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

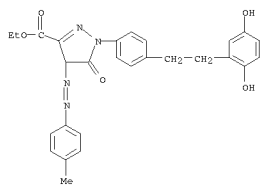
L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 1697-82-1 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,6-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



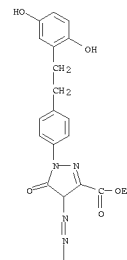
RN 1697-83-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(p-tolylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1697-84-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(1-naphthylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

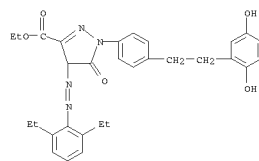
PAGE 1-A



PAGE 2-A

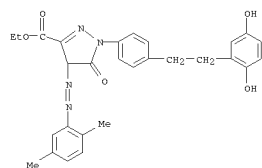


RN 1697-85-4 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(2,6-diethylphenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

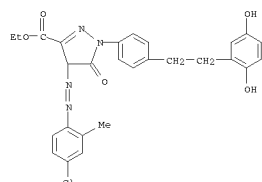


RN 1697-86-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,5-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

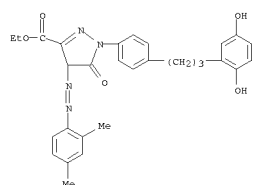
L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 1697-87-6 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-((4-chloro-o-tolyl)azo)-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

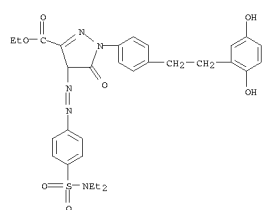


RN 1830-89-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

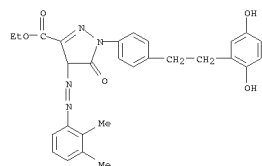


L46 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

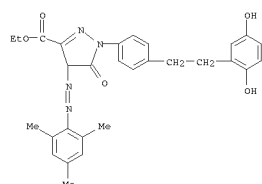
RL: PREP (Preparation)  
(Prepn. of)  
RN 1654-23-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-((p-(diethylsulfamoyl)phenyl)azo)-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-22-4 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,3-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-23-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesitylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



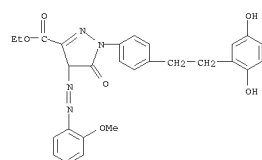
RN 1654-24-6 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(o-methoxyphenyl)azo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

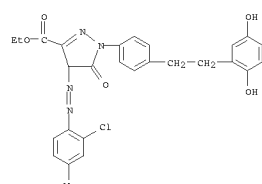
RN 1964-4770-7 HCAPLUS  
DN 61:77097  
OREF 61:13464g-h, 13465a-b  
TI Azo dye developers  
IN Green, Milton  
PA Polaroid Corp.  
SO 17 pp.  
DT Patent  
LA Unavailable  
FAM.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US---3141772		19640721	1963US-0301181	19630809 <--
PI	US	19630809		
GI	US			
AB	For diagram(s), see printed CA issue.			
AB	Dyes of general formula I are useful as yellow dye developers for transfer photographic processing. Thus, 2 g. 2,4-Me2C6H3NH2 was diazotized and coupled with 3 g. 1-[p-(2,5-diacetoxyphen-ethyl)phenyl]-3-carbomethoxy-5-pyrazolone (II), the product hydrolyzed with aqueous NaOH in the absence of O, and reacidified to yield I (A = Z = Me, Y = R = E = H, X = ETO, n = 2), m. 96-101°. Similarly, other I (X = OEt) were prepared (A, X, Z, R, E, n, and m.p. given): Me, H, H, Me, 2, 170-5°; H, H, Me, H, H, 2 (III), 207-11° (decompose); H, H, 502NEt2, H, H, 2, 242-45° (decompose); Me, Me, H, H, 2, 115-22° (decompose); Me, H, Me, H, H, 3, 100-5°; Me, H, Me, H, Me, 2, 185-8°; CH3CH2CH2CH (A + Y), H, H, H, 2, 134-40°; MeO, H, H, H, H, 2, 228-32°; Cl, H, Me, H, H, 2, 106-13 Et, H, H, H, Et, 2, 155-7°; Me, H, H, Me, H, 2, 130-40°; Me, H, Cl, H, H, 2, 143-9°; Me, H, Me, H, H, 0, 138-30°; Me, H, Me, H, H, 3, 100-05°; CF3, H, H, H, 2, 110-18°. III (5.84g.) and 30 ml. EtNH2 combined in a 100 ml. stainless steel bomb, heated over night at steam bath temperature, the excess amine removed with a stream of W, and the mixture acidified with dilute HCl gave I (A = X = D = E = H, Z = Me, X = EtNH, n = 2), decompose 245°. Similarly, other I (A = Z = E = Me, Y = R = H) were prepared (X, n, m.p., maximum in mμ, and e given): MeNH, 2, 206-07° (decompose), 438, 18,100; Me2N, 2, 210-11° (decompose), 415, 18,800; N-piperidinyl, 2, 219-21°, 412, 19,000; NH2, 2, 201.5-2.5°, 440, 17,400; HO(CH2)2NH, 3, 162-4°, --, 1° PrNH, 2, 115-17°, --, NHC(CH2OH)2Me, 3, 135-40°, --, --, MeCH(OH)CH2NH, 2, 206-7°, --, --.			
II	1654-21-3p, 2-Pyrazoline-3-carboxylic acid, 4-((p-(diethylsulfamoyl)phenyl)azo)-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 1654-22-4p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,3-xylylazo)-, ethyl ester 1654-23-5p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesitylazo)-5-oxo-, ethyl ester 1654-24-6p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-((o-methoxyphenyl)azo)-5-oxo-, ethyl ester 1654-25-7p, 2-Pyrazoline-3-carboxylic acid, 4-((2-chloro-p-tolyl)azo)-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 1654-26-8p, 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-4-(2,4-xylylazo)-, ethyl ester 1697-81-0p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester 1697-82-1p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,6-xylylazo)-, ethyl ester 1697-83-2p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(p-tolylazo)-, ethyl ester 1697-84-3p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(1-naphthylazo)-5-oxo-, ethyl ester 1697-85-4p, 2-Pyrazoline-3-carboxylic acid, 4-((2,6-diethylphenyl)azo)-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 1697-86-5p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,5-xylylazo)-, ethyl ester 1697-87-6p, 2-Pyrazoline-3-carboxylic acid, 4-((4-chloro-o-tolyl)azo)-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester 1830-89-3p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester 16317-46-7p, 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-((a,a,a-trifluoro-o-tolyl)azo)-, ethyl ester			

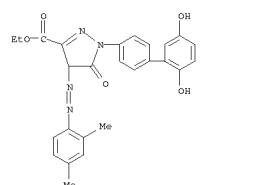
L46 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)  
methoxyphenyl)azo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-25-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-((2-chloro-p-tolyl)azo)-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

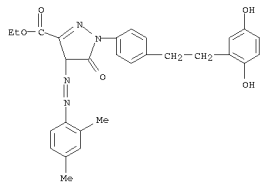


RN 1654-26-8 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

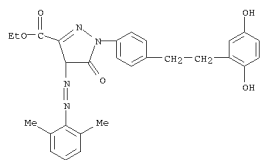


RN 1697-81-0 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

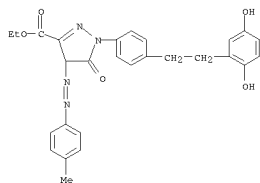
L46 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 1697-82-1 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,6-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

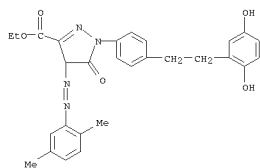


RN 1697-83-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(p-tolylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

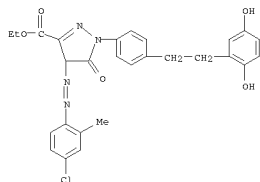


RN 1697-84-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(1-naphthylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

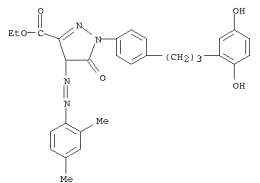
L46 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 1697-87-6 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(4-chloro-o-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



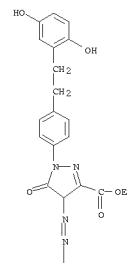
RN 1830-89-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-[3-(2,5-dihydroxyphenyl)propyl]phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 16317-46-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-[(6,6,6-trifluoro-o-tolyl)azo]-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

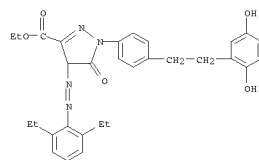
PAGE 1-A



PAGE 2-A

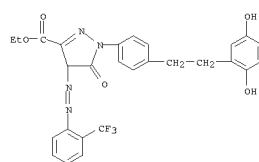


RN 1697-85-4 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(2,6-diethylphenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

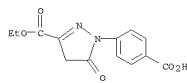


RN 1697-86-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,5-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

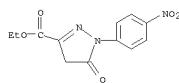


146 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN  
 AN 1948:972 HCAPLUS  
 DN 42:972  
 OREF 42:224a-g  
 TI 5-Pyrazolones  
 IN Kendall, John David; Fry, Douglas James  
 DT Patent  
 LA Unavailable  
 FAR.CITE 1  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI GB-----585780 19470224 1944GB-0023983 19441201 <--  
 AB Substituted 5-pyrazolones are obtained by the action of diazonium compds. under alkaline conditions on compds. of the type RR'CHCH2CO2R'', where R and R' are groups which promote enolization involving the CH to which they are attached, such as Ac, CN, CO2Et, and PhNMeCO. In the reaction R or R' is displaced by the diazonium group and the product rearranges and condenses internally to form a 5-pyrazolone. Side reaction to form azo dyes is minimized by the use of weak alkali, such as Na2CO3, Na2B4O7, NaOAc, or amines, and by avoiding a large excess of the diazonium compound AcCH(CO2Et)CH2CO2Et (I) (0.1 mol) in 50 ml. EtOH was treated with the diazonium compound from 0.1 mol PhNH2 (II) and 20 g. powdered anhydrous NaOAc (or Na2B4O7 or Na2CO3). The oil which separated on standing was extracted with Et2O, distilled to remove Et2O, taken up in 200 ml. H2O, extracted with Et2O, and the aqueous layer acidified. 1-Phenyl-3-carbethoxy-5-pyrazolone (III), m. 180°, separated III was also obtained by using 200 ml. 50% aqueous C5H5N or Et3N in place of the EtOH and NaOAc. I (0.1 mol) in 200 ml. 50% aqueous C5H5N with 0.05 mol. tetrazotized p,p'-(C6H4NNH2)2 gave 1,1'-(p,p'-biphenylene)bis[3-carbethoxy-5-pyrazolone] (IV), m. 150°. Substitution of AcCH(CO2Me)CH2CO2Et for I in the reaction with diazotized II gave 1-phenyl-3-carbomethoxy-5-pyrazolone, m. 196°. Substitution of Ac2CHCH2CO2Et for I in the reaction with diazotized II gave 1-phenyl-3-acetyl-5-pyrazolone, n. 118°. Substitution of NCCH(CO2Et)CH2CO2Et or CH(CO2Et)CH2CO2Et for I in the reaction with diazotized II, followed by hydrolysis of the product with boiling 10% NaOH, gave 1-phenyl-3-carboxy-5-pyrazolone, m. 241°. Substitution of o-C10H6NHCOCHCH(CO2Et)Ac (VI) for I in the reaction with diazotized II gave the o-chloroanilide of 1-phenyl-3-carboxy-5-pyrazolone, m. 82°. V, m. 156°, was obtained by the reaction of the Na salt of o-ClC6H4NHCOCH2Ac with ClCH2CO2Et in EtOH. Substitution of 1-ClOH2NH2 for II in the reaction with I, followed by hydrolysis with hot 50% NaOH, gave 1-(1-naphthyl)-3-carboxy-5-pyrazolone, m. 264° (decomposition). Similarly 2-(1-naphthyl)-3-carboxy-5-pyrazolone, m. 264° (decomposition). Diazotized p-H2NOC6H4SO2NH2 and I gave 1-p-sulfamylphenyl-3-carbethoxy-5-pyrazolone, m. 197°; diazotized p-H2NOC6H4CO2H and I gave 1-(p-carboxyphenyl)-3-carbethoxy-5-pyrazolone, n. 152°, and diazotized p-O2NC6H4NH2 and I gave 1-(p-nitrophenyl)-3-carbethoxy-5-pyrazolone, m. 288°. IT 137566-04-2P, 2-Pyrazoline-3-carboxylic acid, 1-(p-carboxyphenyl)-5-oxo-, 3-ethyl ester 389076-25-9P, 2-Pyrazoline-3-carboxylic acid, 1-(p-nitrophenyl)-5-oxo-, ethyl ester 856613-08-6P, 2-Pyrazoline-3-carboxylic acid, 5-oxo-1-p-sulfamylphenyl-, ethyl ester 857185-39-8P, 2-Pyrazoline-3-carboxylic acid, 1,1'-(4,4'-biphenylene)bis[5-oxo-, diethyl ester 857217-04-0P, 2-Pyrazoline-3-carboxylic acid, 1-[2-naphthyl]-5-oxo-RL: PREP (Preparation) (preparation of)  
 RN 137566-04-2 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-carboxyphenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)

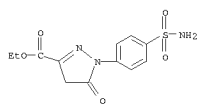


146 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN  
 AN 1943:14455 HCAPLUS  
 DN 37:14455  
 OREF 37:23471,2348a-1,2349a-c  
 TI Reaction between aromatic diazo compounds and compounds of the type of alkylacetacetic esters  
 AU Peckilator, V. V.  
 SO Bull. acad. sci. U. R. S. S., Classe sci. chim. (1941) 521-30  
 DT Journal  
 LA English  
 GI For diagram(s), see printed CA Issue.  
 AB The reaction between aromatic diazo compds. with compds. of the alkylacetacetic ester type was investigated further. It was shown that this reaction is quite general and has many practical applications: it was used as a basis of a new synthesis of α-amino acids, derivs. of 5-pyrazolone and esters of cyclic β-keto acids, as well as cyclic β-keto nitriles. In the previously published results (C. A. 34, 1971.1, 72835,6; 35, 36066), high-yield syntheses were presented for alanine, valine, leucine, isoleucine and phenylalanine. This reaction was investigated further with syntheses of 3 more amino acids. Thus, propylacetacetic ester, b.p. 84°, d416 0.9673, nD16 1.4280, on condensation with Ph diazotate gave 35.44 butyrylformic acid phenylhydrazones, m. 103°, which on reduction gave 77.4% of valine, m. 304-5°. Butylacetacetic ester, b.p. 110-13° d416 0.9539, nD16 1.4292, on condensation with Ph diazotate gave 65% valerylformic acid phenylhydrazones, m. 72-5°, which on reduction gave 88.1% of leucine, m. 234-6°. p-MeOC6H4CH2Cl was condensed with alkylacetacetic ester to give p-methoxyphenylacetacetic ester (764), b.p. 157-8°, d417.2 1.1033, nD17.2 1.5077; its phenylhydrazone was obtained in 75% yield (isolated in 2 forms: colorless, m. 158-5°, and yellow, m. 150°); reduction of this gave 56.04 p-methoxyphenylalanine, m. 262°; boiling the latter with HI gave 96% tyrosine, m. 309-10°. Benzylacetacetic ester and isobutylacetacetic ester used with other diazotized compds. (o- and p-toluidines, m- and p-nitroanilines, sulfanilic acid and 1- and 2-naphthylamines, gave the corresponding hydrazones in 55-75% yields. (No data given.) The formation of pyrazolones by the scheme: EtO2CCHCH(CO2Me)CO2Et ArN=NCH2CO2Ar → ArN=NCH2CO2Et was used for preparation of a large number of derivs. of this type; thus, using o-toluidine, yellow crystalline product, m. 95-6°; m-toluidine, orange m. 146-7°, p-toluidine, red, m. 143-4°; sulfanilic acid gave the mono-Et ester of tartaric acid; sulfanilamide yielded a yellow crystalline product, m. 258-60°; p-nitroaniline, orange, m. 246-8°; naphthionic acid, red infusible product; benidine, red infusible product. It was also shown that bromotartaric acid condenses with aryl diazotates, to yield directly arylhydrazones (and from these, the bis-hydrazones) of interest in the dyestuff field; thus, the following o-arylaro-β-ketohydrazones were prepared: p-nitrophenyl, m. 214° (from AcOH), m-tolyl, m. 172° (from EtOH), 1-naphthyl, m. 148-50° (from AcOH), and 2-naphthyl, m. 212°. It was shown that CH2BrCOCHBrCO2Et with Ar2NOH yields: CO2CH2NAr.N:CO2Et by which scheme there were prepared: α-(1-naphthylazo)-p-bromoacetacetic ester, m. 165° (from AcOH), and others (not given). In the field of allylic esters the most completely investigated material was cyclopentanecarboxylic ester, b.p. 104-6°, nD17.5 1.4750, d417.5 1.0741, which by the scheme, CH2.CH2.CH2.CO2CHCO2Et → EtO2C(C:NNHPh)(CH2)4CO2H + HO2C(C:NNHPh)(CH2)4CO2H, in turn: the phenylhydrazone of mono-Et α-ketopimelate (984), isolated in 2 forms: m. 89.5-90° and 142-3°; this on hydrolysis gave the phenylhydrazone of the acid, also in 2 forms, m. 144-5° and 131-2°; reduction of the latter gave 664 α-aminoimelic acid, m. 225-26°. From cyclopentanecarboxylic ester, the corresponding phenyl- and 1-naphthylhydrazones of mono-Et α-ketoadipate phenylhydrazone of α-ketoadipic acid, and α-aminoimelic acid were obtained (no data given). Et camphorcarboxylate, b.p. 162-3°, d413 1.0646, nD13 1.4767, condensed with Ph diazotate gave the compound Cl9H24O3N2, m. 62°, readily hydrolyzed to the phenylhydrazone of ketohomocamphoric acid, m. 186°, which on reduction gave α-aminohomocamphoric acid, m. 185°. Insofar as the group CO2Et corresponds to the group CN in condensations with diazo compds., the reaction with aromatic diazo compds. of nitriles of the type R.CO2CHCN was partly investigated and preliminary expts. showed that the nitrile of cyclopentanecarboxylic acid appears to react according to the following scheme: CH2.CH2.CO2CHCN → pPh2NOH HO2CCH2CH2CH2C(C:NNHPh)CN. The rupture of a C-C bond occurring in

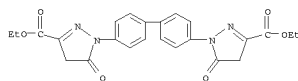
146 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)  
 RN 389076-25-9 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-1-(4-nitrophenyl)-5-oxo-, ethyl ester (CA INDEX NAME)



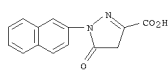
RN 856613-08-6 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 5-oxo-1-(p-sulfamoylphenyl)-, ethyl ester (7CI) (CA INDEX NAME)



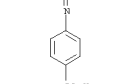
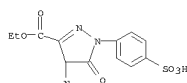
RN 857185-39-8 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1,1'-(4,4'-biphenylene)bis[5-oxo-, diethyl ester (5CI) (CA INDEX NAME)



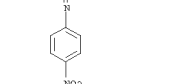
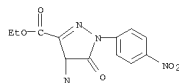
RN 857217-04-0 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-[2-naphthyl]-5-oxo- (5CI) (CA INDEX NAME)



146 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)  
 reactions of this general type is remarkable particularly because of the mild conditions employed (weakly alk. aq. or dil. alc. soln. at 0°). A suggestion is made as to the mechanism of C-C rupture in biol. processes.  
 IT 6359-65-5P, 2-Pyrazoline-3-carboxylic acid, 5-oxo-1-p-sulfonyl-4-p-sulfonylphenyl-, ethyl ester, di-Na salt 110032-11-6P, 2-Pyrazoline-3-carboxylic acid, 1-(p-nitrophenyl)-4-(p-nitrophenylazo)-5-oxo-, ethyl ester 858265-49-3P, 2-Pyrazoline-3-carboxylic acid, 5-oxo-1-p-tolyl-4-p-tolylazo- 858265-56-2P, 2-Pyrazoline-3-carboxylic acid, 1-(4'-hydroxy-4-biphenyl)-4-(4'-hydroxy-4-biphenylazo)-5-oxo-, ethyl ester  
 RL: PREP (Preparation) (preparation of)  
 RN 6359-65-5 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfonylphenyl)-4-(4-sulfonylphenyl)azo-, 3-ethyl ester, disodium salt (9CI) (CA INDEX NAME)

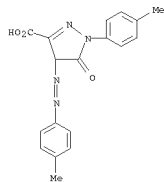


RN 110032-11-6 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 1-(p-nitrophenyl)-4-(p-nitrophenylazo)-5-oxo-, ethyl ester (6CI) (CA INDEX NAME)

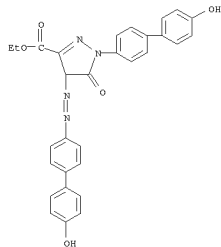


RN 858265-49-3 HCAPLUS  
 CN 2-Pyrazoline-3-carboxylic acid, 5-oxo-1-p-tolyl-4-p-tolylazo- (4CI) (CA INDEX NAME)

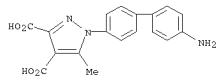
146 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



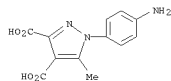
RN 858265-56-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-(4'-hydroxy-4-biphenyl)-4-(4'-hydroxy-4-biphenylazo)-5-oxo-, ethyl ester (4CI) (CA INDEX NAME)



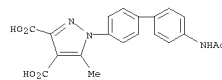
146 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)  
RN 861369-86-0 HCAPLUS  
CN 3,4-Pyrazoledicarboxylic acid, 1-[p-(p-aminophenyl)phenyl]-5-methyl- (2CI) (CA INDEX NAME)



RN 861585-74-2 HCAPLUS  
CN 3,4-Pyrazoledicarboxylic acid, 1-(p-aminophenyl)-5-methyl- (2CI) (CA INDEX NAME)



146 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN  
RN 1926-4890 HCAPLUS  
DN 20:4890  
OREF 20:598h-1,599a-c  
TI New azo combinations with diacetosuccinic ester and the Billow synthesis of substituted pyrazoles  
AU Bulow, C.; Baur, K.  
SO Berichte der Deutschen Chemischen Gesellschaft [Abteilung] B: Abhandlungen (1925), 58B, 1926-32  
CODEN: BDCBAD; ISSN: 0365-9488  
DT Journal  
LA Unavailable  
GI For diagram(s), see printed CA Issue.  
AB cf. Ber. 33, 262(1900); Dimroth, C. A. 3, 439. Di-Et [acetyl-p-phenylenediamine-azo]diacetosuccinate, RN:NCAC(CO2Et)(CHACCO2Et) (I, R = AcNHCH2), from diazotized p-AcNHOC6H4NH2 in HCl with (CHACCO2Et)2 and NaOAc in cold aqueous alc., m. 134°, does not give the Bulow reaction, is easily converted by long standing in alc., by boiling in dilute alc. or AcOH or by fusion into di-Et 5-methyl-1-[p-acetylamino-phenyl]pyrazole-3,4-dicarboxylate (best prepared by treating the original coupling mixture directly with steam), m. 158°, which is hydrolyzed by boiling alc. KOH to the free acid, m. 264° (decomposition), can be titrated very accurately, is not precipitated by AcOH from aqueous solns. of the di-K salt; the 1-p-aminophenyl acid, from the above ester with 1:1 HCl, m. 276° (decomposition), is distinctly amphoteric; although it forms no solid HCl salt, its suspensions in mineral acids yield clear diazo solns. (II) which under suitable conditions can be coupled with keto-enol desmotropes of the type of AcCH2CO2Et, yielding with AcCH2CO2Et itself Et[5-methylpyrazole-3,4-dicarboxy-1-p-aniline-azo]acetosuccinate, EC02CCHACN(NC6H4NCH2:CO2H)N=CCO2Et, yellow, m. 215-4° (decomposition), and with AcCH2CONHPh the corresponding acetoacetanilide, decomp. about 266°, which cannot be titrated and whose CH3N salt in H2O gives ppts. with metallic salts. Di-Et [5-methylpyrazole-3,4-dicarboxy-1-p-aniline-azo]acetonedicarboxylate, from II and CO(CH2CO2Et)2, yellow hydrated leaflets (1 or 2H2O), m. anhydrous around 140°, yields with alkalis needles, decompose 265°, containing 49.12-49.23% C, 3.89% H and 13.40% N. p-AcNHOC6H4NH2, m. 195-6°, is obtained in 57% yield from 25.2 g. com. distilled (C6H4NH2)2 and 14 g. Ac2O in CHCl3 in the cold. Di-Et [N-monoacetylbenzidine-azo]diacetosuccinate, m. 163° (decomposition), does not give the Bulow reaction. Di-Et 5-methyl-1-[p-acetylamino]diphenylpyrazole-3,4-dicarboxylate, m. 168°; free acid, m. 285°(decomposition); K H salt, decomp. 325°; di-K salt; 1-p-aminodiphenyl acid, m. 287° (decomposition). Tetra-Et diacetosuccinate[azobenzidine-azo]diacetosuccinate, from tetrazotized (C6H4NH2)2 and (CHACCO2Et)2, faintly yellow, m. 152° (decomposition), does not give the Bulow reaction. Tetra-Et 1-p-diphenylbis-[5-methylpyrazole-3,4-dicarboxylate], m. 141°; free acid, m. 302° (decomposition); tetra-K salt; di-K salt, does not change up to 350°.  
IT 861382-90-3, 3,4-Pyrazoledicarboxylic acid, 1-[p-(p-acetamidophenyl)phenyl]-5-methyl- (and derivs.)  
RN 861382-90-3 HCAPLUS  
CN 3,4-Pyrazoledicarboxylic acid, 1-[p-(p-acetamidophenyl)phenyl]-5-methyl- (2CI) (CA INDEX NAME)



IT 861369-86-0P, 3,4-Pyrazoledicarboxylic acid, 1-[p-(p-aminophenyl)phenyl]-5-methyl- 861585-74-2P, 3,4-Pyrazoledicarboxylic acid, 1-(p-aminophenyl)-5-methyl-  
RL: PREP (Preparation)  
(preparation of)

=> b casre

FILE 'CASREACT' ENTERED AT 15:32:19 ON 27 DEC 2007  
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FILE CONTENT:1840 - 23 Dec 2007 VOL 147 ISS 26

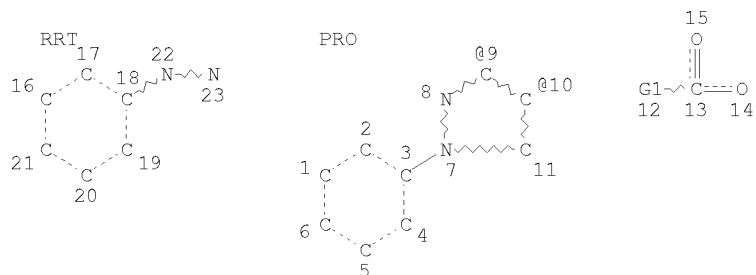
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que sta l43  
 L41 STR



VAR G1=9/10  
 NODE ATTRIBUTES:  
 CONNECT IS E3 RC AT 6  
 CONNECT IS E3 RC AT 11  
 CONNECT IS E1 RC AT 23  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE  
 L43 126 SEA FILE=CASREACT SSS FUL L41 ( 1128 REACTIONS)

100.0% DONE 10611 VERIFIED 1128 HIT RXNS 126 DOCS  
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FILE 'REGISTRY' ENTERED AT 13:41:30 ON 27 DEC 2007

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L1      STR
L2      134263 SEA FILE=REGISTRY SSS FUL L1
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L3      STR L1
L4      5 L3 SAM SUB=L2
L5      882 L3 FULL SUB=L2
      SAV TEM J905C2/A L5

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L6      163 L5
      E SCHADT O/AU
L7      23 E3-4
      E SCHIEMANN K/AU
L8      42 E3-4
      E VAN AMSTERDAM C/AU
L9      53 E3-6
      E BARTOSZYK G/AU
L10     122 E4-8
      E SEYFRIED C/AU
L11     230 E3-6,E12-E14
L12     34803 MERCK/CS,PA
L13     2 L6 AND L7-11
L14     4 L6 AND L12
L15     2 L14 NOT L13
      SEL HIT RN 2

FILE 'REGISTRY' ENTERED AT 13:48:33 ON 27 DEC 2007
L16     70 E1-70

FILE 'HCAPLUS' ENTERED AT 13:52:45 ON 27 DEC 2007
L17     161 L6 NOT L13
L18     136 L17 AND PD<=20030308
      SEL HIT RN

FILE 'REGISTRY' ENTERED AT 13:54:24 ON 27 DEC 2007
L19     385 E1-385
L20     6378 L2 AND (NC4 OR NC2NC2)/ES
L21     2 (PIPERAZINE OR PYRROLIDINE)/CN
L22     5645 (16.136.1 OR 46.383.1)/RID AND L20

FILE 'HCAPLUS' ENTERED AT 14:35:12 ON 27 DEC 2007
L23     1045 L22
L24     769 L23 AND PD<=20030308
L25     7 L24 AND L18
      SEL HIT RN

FILE 'REGISTRY' ENTERED AT 14:37:50 ON 27 DEC 2007
L26     116 E386-501
      DEL SEL Y
L27     3 L19 AND (C24H26CLN3O4 OR C26H24N2O2)
L28     2 L26 AND NC2NC2/ES AND 46.156.30/RID
L29     1 C22H24BRN7O AND L28
L30     4 L27,L29

FILE 'HCAPLUS' ENTERED AT 14:48:07 ON 27 DEC 2007
L31     4 L30

FILE 'REGISTRY' ENTERED AT 14:49:55 ON 27 DEC 2007
L32     STR L1
L33     50 L32 SAM SUB=L2
L34     8106 L32 FULL SUB=L2
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L35     4110 L34 AND PD<=20030308
L36     21 L35 AND L18
L37     1082 L35 AND L34 (L)PREP+NT/RL

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L38          17 L18 AND L37

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L39          STR L32
L40          9 L39
L41          STR L39
L42          6 L41
L43          126 L41 FULL
              SAV TEM J905C8/A L43
L44          80 L43 AND PD<=20030308
L45          46 L43 NOT L44

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L46          18 L31,L38
L47          0 L46 AND L7-11

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